Paul Scowen, PhD

Personal Information

Name:	Paul Andrew Scowen
Date of Birth:	June 11, 1966
Citizenship:	US Citizen
Professional Address:	School of Earth and Space Exploration, Arizona State University, P.O. Box 876004, Tempe, AZ 85287-6004
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Research Interests

- The interplay between massive stars and star formation in the surrounding environment. This interest extends both to detailed studies of the physics and dynamics of the gas and dust around regions of high mass star formation, as well as to the study of global effects (e.g. self propagating star formation) in other galaxies. The intent is to use the microphysics we have learned about in nearby star formation regions to tell us more about how larger systems propagate star formation and ultimately affect global modes. This work is currently proceeding with graduate student Kelley Liebst and tangentially with postdoc Karen Knierman whose focus is on star formation in tidal tail galaxies. New work on star formation in the early Universe with so-called Population III stars in metal-poor environments is being led by graduate student Rhonda Holton and undergraduate student Emily Apel.
- Space Mission Development with faculty at ASU and elsewhere. This development extends to serving as design lead on the Ultraviolet Spectrograph for the Habitable Exoplanet Imaging Mission (HabEx) concept; the instrument interface engineer for the LunaH-Map Cubesat; and the instrument assembly and test engineer for the SPARCS Cubesat.
- Instrumentation Development for both ground-based and space-based applications. Managerial support of the Laboratory for Astronomical Space Instrumentation at ASU. Oversight of graduate students working on contract and thesis work in this lab. We have just completed the development of an operational prototype cryogenic hexapod system to enable image stabilization for high altitude balloon payloads and are advancing to field-based operation. This work is being pursued by graduate students Alex Miller and Rhonda Holton, and undergraduate student Ronnie Ramirez. We are starting work on Cubesat formation flying led by graduate student Connie Spittler. In addition Scowen is PI on a NASA SAT award to develop new reflective coatings for use in the far ultraviolet in space, with collaborators Bob Nemanich and Brianna Eller in ASU Physics.
- Development of facilities and exercises at ASU for undergraduate and graduate education in astronomy and exploration engineering, at both the non-science major and science major levels. This has involved playing a role in the architecture of the ESE BS with Engineering concentration, and the design and delivery of several classes that are core to the degree program.

Professional History

Current Position:

- Full Research Professor, School of Earth & Space Exploration, Arizona State University, June 2017 – present

Concurrent Responsibilities and Previous Positions:

- Co-Chair, ASTRO-1 Requirements Team, BoldyGo Institute, 2015 – present
- Principal Investigator, HORUS Origins Science Mission Study, Summer 2005 – present
- Principal Investigator, ORION Explorer Mission Proposal, February 2010 – present
- Associate Research Professor, School of Earth & Space Exploration, Arizona State University, December 2008 – June 2017
- Principal Investigator, Star Formation Observatory / Camera (SFO/SFC) Concept Study, October 2007 - 2011
- Research Scientist, School of Earth & Space Exploration, Arizona State University, June 2007 – December 2008
- Research Professional, School of Earth & Space Exploration, Arizona State University, June 2006 – June 2007
- Principal Investigator, ASU Laboratory for Astronomical Space Instrumentation (LASI), School of Earth & Space Exploration, Arizona State University, December 2005 – present
- Principal Investigator, Orion MIDEX Mission Proposal, Winter 2005 – 2009
- Project Scientist, HORUS Origins Science Mission Study, PI Jon Morse, Spring 2004 – Summer 2005
- Project Scientist, Orion MIDEX Mission Proposal, PI Jon Morse, Summer 2003 – Winter 2005
- Project Management & Software Development, Small Radio Telescope Project, Fall 2001 – Fall 2010
- Project Management & Software Development, ASU Braeside Observatory Upgrade and Remote Observing, Summer 2000 – Summer 2008
- Assistant Research Professional, Department of Physics & Astronomy, Arizona State University, July 1998 – June 2006
- Visiting Research Assistant Professor, Department of Physics & Astronomy, Arizona State University, August 1997 - June 1998
- Member NASA Astrophysics Data Program Review Panel, July 1997
- Associate Member of the Wide Field/Planetary Camera 2 Investigation Definition Team, June 1992 - December 1998
- Associate Member of the Wide Field and Planetary Camera Investigation Definition Team, June 1992 - December 1997
- Postdoctoral Research Associate, Department of Physics & Astronomy, Arizona State University, June 1992 - August 1997

Paul Scowen *February 2018*

Education

- Ph. D. (Astronomy), May 1993, Thesis: "*A study of the HII Region Populations of M101, M51 and NGC 4449*", Rice University, Houston, Texas, USA., Advisor: Prof. Reginald J. Dufour
- M. S. (Astrophysics), May 1989, Thesis: "*A Calculation of the Mean Age of Interstellar Dust Particles*" , Rice University, Houston, Texas, USA., Advisor: Prof. Donald D. Clayton
- B. S. (Hons) (Physics with Astrophysics), July 1987, University of Birmingham, Birmingham, United Kingdom

Professional Memberships

- Full Member of the American Astronomical Society
- Senior Member of SPIE - The International Society for Optical Engineering
- Member of the International Astronomical Union

Teaching Experience

- Instructor, AST 394, "*Astrophysics Research Seminar*", ASU Spring 2018
- Instructor, SES 330, "*Electronics Instrumentation*", ASU Fall 2017
- Co-Instructor (with Mark Robinson), SES 405, "*Exploration Systems Engineering*", ASU Spring 2017
- Instructor, AST 394, "*Astrophysics Research Seminar*", ASU Spring 2017
- Instructor, SES 405, "*Exploration Systems Engineering*", ASU Spring 2016
- Instructor, AST 394, "*Astrophysics Research Seminar*", ASU Spring 2016
- Instructor, AST 598, "*Observing Instrumentation and Data Analysis*", ASU Fall 2015
- Instructor, AST 394, "*Astrophysics Research Seminar*", ASU Spring 2015
- Instructor, AST 114, "*Astronomy Lab II*.", ASU Spring 2015
- Instructor, AST 113, "*Astronomy Lab I*.", ASU Fall 2014
- Instructor, AST 394, "*Astrophysics Research Seminar*", ASU Spring 2014
- Co-Instructor (with Mark Robinson), SES 405, "*Exploration Systems Engineering*", ASU Spring 2014
- Co-Instructor (with Mark Robinson), SES 405, "*Exploration Systems Engineering*", ASU Spring 2013
- Co-Instructor (with Mark Robinson), SES 405, "*Exploration Systems Engineering*", ASU Spring 2012
- Guest Instructor (for Chris Groppi), SES 330, "*Practical Electronics and Instrumentation*", ASU November & December 2011
- Instructor, AST 598, "*Observing Instrumentation and Data Analysis*", ASU Fall 2011
- Instructor, AST 114, "*Astronomy Lab II*.", School of Earth & Space Exploration, ASU Spring 2011
- Instructor, AST/GLG 598, "*Astronomical & Remote Sensing Instrumentation and Data Analysis*", School of Earth & Space Exploration, ASU Spring 2009
- Instructor, AST/GLG 598, "*Astronomical Instrumentation and Data Analysis*", School of Earth & Space Exploration, ASU Fall 2006
- Guest Instructor, PHY 334, "*Advanced Laboratory I*.", Dept. of Physics & Astronomy, ASU Spring 2006
- Guest Instructor, PHY 334, "*Advanced Laboratory I*.", Dept. of Physics & Astronomy, ASU Spring 2005
- Guest Instructor, AST 111, "*Introductory Astronomy I*.", Dept. of Physics & Astronomy, ASU Fall 2004
- Guest Instructor, AST 111, "*Introductory Astronomy I*.", Dept. of Physics & Astronomy, ASU Spring 2004
- Guest Instructor, PHY 334, "*Advanced Laboratory I*.", Dept. of Physics & Astronomy, ASU Spring 2004
- Instructor, AST 114, "*Astronomy Lab II*", Dept. of Physics & Astronomy, ASU Spring 2001
- Instructor, AST 113, "*Astronomy Lab I*", Dept. of Physics & Astronomy, ASU Fall 2000
- Instructor, AST 114, "*Astronomy Lab II*", Dept. of Physics & Astronomy, ASU Spring 2000
- Instructor, AST 113, "*Astronomy Lab I*", Dept. of Physics & Astronomy, ASU Fall 1997
- Instructor, AST 500, "*Astronomical Observing and Data Analysis*", Dept. of Physics & Astronomy, ASU Fall 1995

Invited Talks and Presentations

- "Recent Developments in Next-Generation UV-Visible Space Telescope Planning and Design", SPIE Optics and Photonics: UV/Optical/IR Space Telescopes and Instruments: Innovative Technologies and Concepts VIII, San Diego, CA, August 6-7, 2017
- "Future Possibilities for FUV Astronomy from Space: the HabEx UVS instrument and the ANUBIS probe mission concept", Ultraviolet Sky Surveys Workshop, Tel Aviv University, Tel Aviv, Israel, July 10-14, 2017
- "NASA Missions – the Next Generation Flagships", Developing the ngVLA Science Program Workshop, Socorro, NM, June 27, 2017
- "HORUS – the High Orbit Ultraviolet-Visible Satellite", Colloquium, SOFIA Science Center, NASA Ames, May 25, 2016
- "Hubble at 25: Looking Beyond the Eagle at Star and Planet Formation", Keynote Address, APS Four Corners Meeting, ASU, October 16, 2015
- "Initial Prospects for UV-visible Astrophysics Science with a 4m-class Observatory", ExoPAG 12 Workshop, Chicago, IL, June 14, 2015
- "Celebrating 25 Years of the Hubble Space Telescope", Plenary Lecture, Hubble 25th Anniversary Event, SESE-ASU, April 24, 2015
- "Celebrating 25 Years of the Hubble Space Telescope", Dean Lecture, California Academy of Sciences, April 6, 2015
- "Hubble Goes High Def to Revisit the Iconic 'Pillars of Creation'", Press Release, AAS Meeting, Seattle, WA, January 5, 2015
- "Review and Explanation of Amateur Astronomical Images", Saguaro Astronomy Club, ASU, April 11, 2014

- "A Look Into the Universe", Discussion Panelist, SEDS SpaceVision Conference 2013, ASU, Nov 7-10, 2013
- "The High ORbit Ultraviolet-visible Satellite, HORUS", NASA SALSO Workshop, Marshall Space Flight Center, Huntsville, AL, Feb 5-6, 2013
- "Galaxy Assembly and SMBH/AGN Growth", COPAG RFI Submission Meeting, Space Telescope Science Inst., Baltimore, MD, Sep 18-19, 2012
- "The Magellanic Clouds Survey", COPAG RFI Submission Meeting, Space Telescope Science Inst., Baltimore, MD, Sep 18-19, 2012
- "Understanding Global Galactic Star Formation", COPAG RFI Submission Meeting, Space Telescope Science Inst., Baltimore, MD, Sep 18-19, 2012
- "HORUS: a mature 2.4m UVO Origins Probe Design for the NRO-2 Telescope", NEW Telescope Meeting, Princeton University, NJ, Sep 4-6, 2012
- "Moving Towards High Resolution Wide Field Imaging From Space", West Valley Society of Retired Engineers, Sun City West, AZ, May 4, 2012
- "UV Spectroscopy/Imaging and Science Questions", Review Talk, Invited for the Keck Institute for Space Studies Workshop on "*Next Generation UV Instrument Technologies Enabling Missions in Astrophysics, Cosmology and Planetary Sciences*", Caltech, Aug 29 – Sep 2 & Dec 1-2, 2011
- "Interferometric Imaging", guest lecture to LOFAR graduate student group, Evan Scannapieco, SESE, February 2011, 2012, 2013
- "Moving Towards Widefield High Resolution Imaging From Space", Rice University, February 2011
- "Development of Custom Detectors for Widefield Surveys", NOAO ReSTAR Workshop, Tucson AZ, November 2010

Postdoctoral Scholars Supervised

- Dr. Karen Knierman – Summer 2015 - 2017

Graduate Student Committees

- Kirk Bennett – co-chair
- Rhonda Holton – co-chair
- Alex Miller – co-chair
- Kelley Liebst – co-chair
- **Dr. Thomas Mozdzen** – graduated 2017
- **Dr. Caleb Wheeler** – graduated 2017
- Jackie Monkiewicz
- **Dr. Abhijith Rajan** – graduated 2017
- Teresa Ashcraft
- **Dr. Julie Stopar** – graduated 2016
- **Dr. Matt Mechtley** – graduated 2013
- **Dr. Karen Knierman** – co-chair (with Chris Groppi) – graduated 2013
- **Dr. Todd Veach** – co-chair (with Chris Groppi) - graduated 2012
- **Dr. Emily McLinden** – graduated 2012
- **Dr. Catherine Kaleida** – co-chair (with Rogier Windhorst) - graduated 2011
- Angel Fuentes – left ASU 2011
- Beatrice Perret – left ASU 2011
- **Dr. Allison Loll** – co-chair (with Steve Desch) - graduated 2010

Undergraduate Students Supervised

- Priya Challa – Senior Thesis Project, "*Focal Plane Actuation using Hexapods*", 2013-14
- Michael Falcon – Senior Thesis Project, "*Star Formation Efficiency in M101*", 2013-14
- Scott Gompert – Senior Thesis Project, "*Argumentation in Introductory Astronomy Lab: An Action Research Project*", 2014-15
- Ravi Prathipati – Barrett Honors College , NASA Space Grant Fellow, 2015-16
- Ronnie Ramirez – Barrett Honors College, 2015-17
- Emily Apel – Barrett Honors College, NASA Space Grant Fellow, 2017-present
- Nathanael Mains – 2017-present
- Connor Companik – Barrett Honors College, Senior Thesis, 2017-present

University / School / Academic Community Service

- Aerospace Engineering Faculty Search Committee, Member, representing SESE, November 2017 – February 2018
- Faculty Awards Committee, Member, SESE, ASU, April 2017 – present
- Instrument Design and Fabrication Core Facility Governance Board, CLAS, ASU, Appointed Member, March 2017 - present
- NASA Advisory Council – Astrophysics Advisory Committee, Appointed Member, March 2017 - present
- Small Satellites Faculty Search Committee, Member, SESE, August 2016 – April 2017

- Co-Chair, Graduate Oversight Committee, SESE, August 2016 – April 2017
- School Representative, ASU College of Liberal Arts & Science Special Research Committee, 2016 - present
- NASA Habitable Exoplanet Imager Mission (HabEx) Science and Technology Definition Team, Appointed Member, February 2016 - present
- Nominated for Outstanding Instructor Award, College of Liberal Arts & Sciences, Arizona State University, February 2016
- NASA Cosmic Origins Program Analysis Group, Chair, November 2015 - present
- NASA Advisory Council – Astrophysics Subcommittee, Appointed Member, July 2015 – March 2017
- Referee for the Journal of Astronomical Telescopes, Instruments, and Systems, 2015 - present
- Nominated for Outstanding Instructor Award, College of Liberal Arts & Sciences, Arizona State University, February 2015
- Chair, Science Interest Group on the Future of UV-Visible Astronomy from Space, NASA COPAG / NAC Astrophysics Subcommittee, Nov 2014 – February 2018
- Graduate Oversight Subcommittee, SESE, 2014 - 2017
- Nominated for Outstanding Instructor Award, College of Liberal Arts & Sciences, Arizona State University, March 2014
- NASA Postdoctoral Program, Reviewer, April & August 2013
- Systems Engineering Faculty Search Committee, SESE, Spring 2013
- CASIS Materials Science Review Panel for the ISS, Member, February 2013
- Arizona NASA Space Grant Steering Committee, Member, 2012 - present
- NSF Astrophysics Review Panel, Member, March 26-27, 2012
- Obama Mentor, ASU, Chris Cazares, 2011 - 2012
- Executive Committee Member, Cosmic Origins Program Analysis Group, NASA, Fall 2011 – Fall 2014
- Faculty Advisor, ASU Astronomy Club (AstroDevils), 2011 – present
- Undergraduate Oversight Subcommittee, Chair, SESE, 2011 - 2014
- ASU Representative, Dark Sky Stakeholder Group, Maricopa Association of Governance, 2011 - 2012
- Systems Engineering Faculty Search Committee, SESE, Spring 2011
- Exoplanet Faculty Search Committee, SESE, Spring 2011
- Cosmology Observer Faculty Search Committee, SESE, Spring 2011
- Obama Mentor, ASU, Erika Fuentes, 2010-2011
- Chair, Ad-Hoc Committee on Engineering BS Degree within SESE, 2009 – 2012
- Obama Mentor, ASU, Ervin Blanton, 2009-2010
- University of Arizona Observatories, Telescope Allocation Committee, ASU representative, 2009 – 2012
- EH&S Compliance Officer, LASI Lab, SESE, 2009 - present
- Member, University Hearing Board, 2007 – 2015
- Referee for Astronomy and Astrophysics, 1999 - present
- Referee for Astrophysical Journal Letters, 1998 - present
- Referee for Nature, 1997 - present
- Referee for the Astronomical Journal, 1996 - present
- Referee for Publications of the Astronomical Society of the Pacific, 1993 – present
- Referee for the Journal of Astronomical Telescopes, Instruments, and Systems, 2015 - present

Funding Awards

- Monitoring the High-Energy Radiation Environment of Exoplanets around Low-mass Stars with SPARCS (Star-Planet Activity Research CubeSat), NASA, $5,011,569, 1/1/2018-12/31/2021
- SWARMS, JPL SURP, $30,000, 10/16/2017-09/30/2020
- Building a Better ALD - use of Plasma Enhanced ALD to Construct Efficient Interference Filters for the FUV, NASA/COR/SAT, $795,899, 1/1/2016-12/31/2018
- Lunar Polar Hydrogen Mapper, NASA/SIMPLEX, $5.2M, 10/1/2015-9/30/2020
- Rocket Flight of a Delta-Doped CCD Focal Plane Array to Prove Flight Rating, NASA/STMD/GCOTD, $87,221, 11/4/2013 – 11/4/2014
- Focal Plane Actuation to Achieve Ultra-High Resolution on Suborbital Balloon Payloads, NASA/STMD/GCOTD, $249,999, 11/4/2013 – 11/4/2014
- High Efficiency Detectors For Photon Counting And Large FPA Applications, JPL/SAT, $170,119, 9/1/2012 – 8/31/2015
- Ultraviolet Coatings, Materials, And Processes For Advanced Telescope Optics, JPL/SAT, $74,950, 10/1/2012 – 9/30/2015
- Partnering for the Future: ASU and JPL Training the Next Generation of Explorers, JPL, $17,500, 5/1/2012 – 4/30/2013
- Development of a high efficiency dichroic beamsplitter for the entire optical/NUV band, JPL, $24,000, 5/1/2012 – 4/30/2013
- Gemini GHOS Contract, Univ. Of Colorado – Boulder, $45,118, 11/10/2011 - 5/10/2012
- Stellar Clustering And Associated Disruption Times In Nearby Galaxies, Space Telescope Science Inst., $105,633, 9/1/2010 - 8/31/2013
- Development Of A Prototype Modular Imaging Cell (MIC), JPL, $89,148, 1/1/2010 - 12/31/2010
- Innovative Multiband Filters, NSF, $130,751, 7/1/2010 - 6/30/2013

Refereed Publications

99. **Paul A. Scowen**, Kevin C. France, Jason Tumlinson, Stephan R. McCandliss, Todd Tripp, Jay C. Howk; "*Recent developments in next-generation UV-visible space telescope planning and design*", Proceedings of the SPIE, **10398**, 10398-29, 2017
98. **Paul A. Scowen**, Daniel K. Stern, Rachel Somerville, Mayer Rud, Stefan R. Martin, Matthew Beasley; "*Science and architecture drivers for the HabEx Ultraviolet Spectrograph (UVS)*", Proceedings of the SPIE, **10398**, 10398-6, 2017
97. Stefan R. Martin, Mayer Rud, Daniel K. Stern, **Paul A. Scowen**; "*HabEx space telescope optical system*", Proceedings of the SPIE, **10398**, 10398-4, 2017
96. Pilyavsky, Genady; Mauskopf, Philip; Smith, Nathan; Schroeder, Edward; Sinclair, Adrian; van Belle, Gerard T.; Hinkel, Natalie; **Scowen, Paul**; "*Single-Photon Intensity Interferometry (SPIIFy): utilizing available telescopes*", MNRAS, **467**, Issue 3, 3048-3055, 2017
95. Nikzad, Shouleh; Jewell, April D.; Hoenk, Michael E.; Jones, Todd; Hennessy, John; Goodsall, Tim; Carver, Alexander; Shapiro, Charles; Cheng, Samuel R.; Hamden, Erika; Kyne, Gillian; Martin, D. Christopher; Schiminovich, David; **Scowen, Paul**; France, Kevin; McCandliss, Stephan; Lupu, Roxana E.; "*High Efficiency UV/Optical/NIR Detectors for Large Aperture Telescopes and UV Explorer Missions: Development of and Field Observations with Delta-doped Arrays*", JATIS, accepted for publication, 2017
94. **Scowen, Paul A.**; Tripp, Todd; Beasley, Matt; Ardila, David; Andersson, B-G; Maíz Apellániz, Jesús; Barstow, Martin; Bianchi, Luciana; Calzetti, Daniela; Clampin, Mark; Evans, Christopher J.; France, Kevin; García García, Miriam; Gomez de Castro, Ana; Harris, Walt; Hartigan, Patrick; Howk, J. Christopher; Hutchings, John; Larruquert, Juan; Lillie, Charles F.; Matthews, Gary; McCandliss, Stephan; Polidan, Ron; Perez, Mario R.; Rafelski, Marc; Roederer, Ian U.; Sana, Hugues; Sanders, Wilton T.; Schiminovich, David; Thronson, Harley; Tumlinson, Jason; Vallerga, John; Wofford, Aida; "*Finding the UV-Visible Path Forward: Proceedings of the Community Workshop to Plan the Future of UV/Visible Space Astrophysics*", PASP, 129, 76001, 2017
93. Miller, Alexander D.; **Scowen, Paul A.**; Veach, Todd J.; "*Focal plane actuation by hexapod for the development of a high-resolution suborbital telescope*", Proceedings of the SPIE, **9912**, 99126B, 2016
92. **Scowen, Paul A.**; Nemanich, Robert; Eller, Brianna; Yu, Hongbin; Mooney, Tom; Beasley, Matt; "*Use of plasma enhanced ALD to construct efficient interference filters for astronomy in the FUV*", Proceedings of the SPIE, **9912**, 99122F, 2016
91. Mennesson, Bertrand; Gaudi, Scott; Seager, Sara; Cahoy, Kerri; Domagal-Goldman, Shawn; Feinberg, Lee; Guyon, Olivier; Kasdin, Jeremy; Marois, Christian; Mawet, Dimitri; Tamura, Motohide; Mouillet, David; Prusti, Timo; Quirrenbach, Andreas; Robinson, Tyler; Rogers, Leslie; **Scowen, Paul**; Somerville, Rachel; Stapelfeldt, Karl; Stern, Daniel; Still, Martin; Turnbull, Margaret; Booth, Jeffrey; Kiessling, Alina; Kuan, Gary; Warfield, Keith; "*The Habitable Exoplanet (HabEx) Imaging Mission: preliminary science drivers and technical requirements*", Proceedings of the SPIE, **9904**, 99040L, 2016
90. Balasubramanian, Kunjithapatham; Hennessy, John; Raouf, Nasrat; Nikzad, Shouleh; Ayala, Michael; Shaklan, Stuart; **Scowen, Paul**; Del Hoyo, Javier; Quijada, Manuel; "*Aluminum mirror coatings for UVOIR telescope optics including the far UV*", UV/Optical/IR Space Telescopes and Instruments: Innovative Technologies and Concepts VII, Proceedings of the SPIE, **9602**, 9602-01, 2015
89. **Scowen, Paul A.**; Miller, Alex; Challa, Priya; Veach, Todd; Groppi, Chris; Mauskopf, Phil; "*Focal Plane Actuation to Achieve Ultra-high Resolution on Suborbital Balloon Payloads*", *Advances in Optical and Mechanical Technologies for Telescopes and Instrumentation*, Proceedings of the SPIE, **9151**, 9151-15, 2014
88. **Scowen, Paul A.**; Perez, Mario R.; Neff, Susan G.; Benford, Dominic J.; "*Scientific Objectives for UV/Visible Astrophysics Investigations: A Summary of Responses by the Community (2012)*", Experimental Astronomy, **37(1)**, 11, 2014
87. **Paul Scowen**; Brian C. Cooke; Matthew Beasley; Oswald H. Siegmund; "*The High-ORbit Ultraviolet-visible Satellite, HORUS*", *UV/Optical/IR Space Telescopes and Instruments: Innovative Technologies and Concepts VI*., Proceedings of the SPIE, **8860**, 8860-07, 2013
86. Todd Veach; **Paul Scowen**; "*Innovative CCD readout technology for use in large focal plane array development*", *UV/Optical/IR Space Telescopes and Instruments: Innovative Technologies and Concepts VI*., Proceedings of the SPIE, **8860**, 8860-0X, 2013
85. Knierman, K,; **Scowen, P.A.**; Veach, T.; Groppi, C.; Mullan, B.; Konstantopoulos, I.; Knezek, P.M.; Charlton, J.; "*Tidal Tails of Minor Mergers II: Comparing Star Formation in the Tidal Tails of NGC 2782*", ApJ, **774**, 125, 2013
84. Loll, A; Desch, S.; Foy, J.; **Scowen, P.A**.; "*Observations of the Crab Nebula's Asymmetrical Development*", ApJ, **765**, 152, 2013
83. Veach, Todd J.; **Scowen, Paul A.**; Beasley, Matthew; Nikzad, Shouleh; "*Modified modular imaging system designed for a sounding rocket experiment*", *Ground-based and Airborne Instrumentation for Astronomy IV*. Proceedings of the SPIE, **8446**, 84467F-84467F-12, 2012
82. Knierman, K.; Knezek, P.M.; **Scowen, P.**; Jansen, R.A.; Wehner, E.; "*Tidal Tales of Minor Mergers: Unexpected Star Formation in the Tidal Debris of NGC 2782*", ApJL, **749**, L1, 2012
81. Rhoads, James E.; Malhotra, Sangeeta; **Scowen, Paul**; Probst, Ron; McCarthy, Don; "*Multiband filters for near-infrared astronomical applications*", *Space Telescopes and Instrumentation 2010: Ground-based and Airborne Instrumentation for Astronomy III,* edited by McLean, Ian S.; Ramsay, Suzanne K.; Takami, Hideki. Proceedings of the SPIE, **7735**, 77356C-77356C-9, 2010
80. **Scowen, Paul A.**; Jansen, Rolf H.; Beasley, Matthew N.; Calzetti, Daniella; Desch, Steve; Fullerton, Alex W.; Gallagher, John S., III; Lisman, P. Douglas; Macenka, Steven A.; Malhotra, Sangeeta; McCaughrean, Mark J.; Nikzad, Shouleh; O'Connell, Robert W.; Oey, Sally; Padgett, Deborah L.; Rhoads, James E.; Roberge, Aki; Siegmund, Oswald H. W.; Shaklan, Stuart B.; Smith, Nathan; Stern, Daniel; Tumlinson, Jason; Windhorst, Rogier A.; Woodruff, Robert A.; "*Design and implementation of the NUV/optical widefield Star Formation Camera for the Theia Observatory*", *Space Telescopes and Instrumentation 2010: Optical, Infrared, and Millimeter Wave*, edited by Oschmann, Jacobus M., Jr.; Clampin, Mark C.; MacEwen, Howard A. Proceedings of the SPIE, **7731**, 77314Y-77314Y-10, 2010
79. Kaleida, C.; **Scowen, P.A.**; "*Mapping the Recent Star Formation History of the Disk of M51*", AJ, **140**, 379, 2010
78. Jansen, Rolf A.; Windhorst, Rogier; Rhoads, James; Malhotra, Sangeeta; Stern, Daniel; O'Connell, Robert; **Scowen, Paul**; Beasley, Matthew; "*Galaxy Assembly and SMBH/AGN-growth from Cosmic Dawn to the End of Reionization (revised)*", Astro2010: The Astronomy and Astrophysics Decadal Survey, Science White Papers, 2009
77. Jansen, Rolf A.; **Scowen, Paul**; Beasley, Matthew; Gallagher, John; O'Connell, Robert; Calzetti, Daniela; Oey, Sally; Windhorst, Rogier; Woodruff, Robert; "*A Systematic Study of the Stellar Populations and ISM in Galaxies out to the Virgo Cluster: near-field cosmology within a representative slice of the local universe*", Astro2010: The Astronomy and Astrophysics Decadal Survey, Science White Papers, 2009

76. **Scowen, Paul**; Jansen, Rolf; Beasley, Matthew; Calzetti, Daniela; Fullerton, Alex; Gallagher, John; McCaughrean, Mark; O'Connell, Robert; Oey, Sally; Smith, Nathan; "*The Magellanic Clouds Survey: a Bridge to Nearby Galaxies*", Astro2010: The Astronomy and Astrophysics Decadal Survey, Science White Papers, 2009
75. **Scowen, Paul**; Jansen, Rolf; Beasley, Matthew; Calzetti, Daniela; Desch, Steven; Gallagher, John; McCaughrean, Mark; O'Connell, Robert; Oey, Sally; Padgett, Deborah; Roberge, Aki; Smith, Nathan; "*Understanding Global Galactic Star Formation*", Astro2010: The Astronomy and Astrophysics Decadal Survey, Science White Papers, 2009
74. **Scowen, Paul**; Jansen, Rolf; Beasley, Matthew; Desch, Steve; Fullerton, Alex; McCaughrean, Mark; Oey, Sally; Padgett, Debbie; Roberge, Aki; Smith, Nathan; "*From Protostars to Planetary Systems: FUV Spectroscopy of YSOs, Protoplanetary Disks and Extrasolar Giant Planets*", Astro2010: The Astronomy and Astrophysics Decadal Survey, Science White Papers, 2009
73. **Scowen, Paul**; Nikzad, Shouleh; Hoenk, Michael; Gontijo, Ivair; Shapiro, Andrew; Greer, Frank; Jones, Todd; Seshadri, Suresh; Jacquot, Blake; Monacos, Steve; Lisman, Doug; Dicki, Matthew; Blacksberg, Jordana; "*Large Focal Plane Arrays for Future Missions*", Astro2010: The Astronomy and Astrophysics Decadal Survey, Technology Development Papers, 2009
72. Sembach, Kenneth; Beasley, Matthew; Blouke, Morley; Ebbets, Dennis; Green, James; Greer, Frank; Jenkins, Edward; Joseph, Chuck; Kimball, Randy; MacKenty, John; McCandliss, Stephen; Nikzad, Shouleh; Oegerle, William; Philbrick, Rob; Postman, Marc; **Scowen, Paul**; Siegmund, Oswald; Stahl, H. Philip; Ulmer, Melville; Vallerga, John; Warren, Penny; Woodgate, Bruce; Woodruff, Robert; "*Technology Investments to Meet the Needs of Astronomy at Ultraviolet Wavelengths in the 21st Century*", Astro2010: The Astronomy and Astrophysics Decadal Survey, Technology Development Papers, 2009
71. **Scowen, Paul A**.; Jansen, Rolf; Beasley, Matthew; Calzetti, Daniela; Desch, Steven; Fullerton, Alex; Gallagher, John; Lisman, Doug; Macenka, Steve; Malhotra, Sangeeta; McCaughrean, Mark; Nikzad, Shouleh; O'Connell, Robert; Oey, Sally; Padgett, Deborah; Rhoads, James; Roberge, Aki; Siegmund, Oswald; Shaklan, Stuart; Smith, Nathan; Stern, Daniel; Tumlinson, Jason; Windhorst, Rogier; Woodruff, Robert; "*The Star Formation Camera*", Activity White Paper for the Astro2010 Decadal Survey Subcommittee on Programs, 2009
70. Jansen, Rolf A.; **Scowen, Paul**; Beasley, Matthew; Gallagher, John; O'Connell, Robert; Calzetti, Daniela; Oey, Sally; Windhorst, Rogier; Woodruff, Robert; "*A Systematic Study of the Stellar Populations and ISM in Galaxies out to the Virgo Cluster*", Science White Paper submitted to the Astro2010 Decadal Survey, 2009
69. Elvis, Martin; Beasley, Matthew; Brissenden, Roger; Chakrabarti, Supriya; Cherry, Michael; Devlin, Mark; Edelstein, Jerry; Eisenhardt, Peter; Feldman, Paul; Ford, Holland; Gehrels, Neil; Golub, Leon; Marshall, Herman; Martin, Christopher; Mather, John; McCandliss, Stephan; McConnell, Mark; McDowell, Jonathan; Meier, David; Millan, Robyn; Mitchell, John; Moos, Warren; Murray, Steven S.; Nousek, John; Oegerle, William; Ramsey, Brian; Green, James; Grindlay, Jonathan; Kaaret, Philip; Kaiser, Mary Elizabeth; Kaltenegger, Lisa; Kasper, Justin; Krolik, Julian; Kruk, Jeffrey W.; Latham, David; MacKenty, John; Mainzer, Amanda; Ricker, George; Rinehart, Stephen; Romaine, Suzanne; **Scowen, Paul**; Silver, Eric; Sonneborn, George; Stern, Daniel; Swain, Mark; Swank, Jean; Traub, Wesley; Weisskopf, Martin; Werner, Michael; Wright, Edward; "*A Vigorous Explorer Program*", An Activities/Program White Paper submitted to the Astro2010 NAS/NRC Decadal Review of Astronomy and Astrophysics, 2009
68. **Scowen, Paul A.**; Jansen, Rolf; Beasley, Matthew; Cooke, Brian; Nikzad, Shouleh; Siegmund, Oswald; Woodruff, Robert; Calzetti, Daniela; Desch, Steven; Fullerton, Alex; Gallagher, John; Malhotra, Sangeeta; McCaughrean, Mark; O'Connell, Robert; Oey, Sally; Padgett, Debbie; Rhoads, James; Roberge, Aki; Smith, Nathan; Stern, Daniel; Tumlinson, Jason; Windhorst, Roger; "*The Star Formation Observatory (SFO) mission to study cosmic origins near and far*", *Space Telescopes and Instrumentation 2008: Optical, Infrared, and Millimeter*. Eds. Oschmann, Jacobus M., Jr.; de Graauw, Mattheus W. M.; MacEwen, Howard A., Proceedings of the SPIE, **7010**, 115, 2008
67. **Scowen, P.A**.; Veach, T.; Beasley, M., "*Programmatics and development update for the Orion MIDEX star formation survey mission*", *Space Telescopes and Instrumentation I: Optical, Infrared, and Millimeter*, Eds. John C. Mather, Howard A. MacEwen, Mattheus W. M. de Graauw, Proceedings of SPIE, **6265**, 127, 2006
66. **Scowen, Paul A.**; Morse, Jon A.; Beasley, Matthew, "*Observing programmatics and planning for the ORION MIDEX mission*", SPIE Meeting, Glasgow, Scotland, June 2004, Proceedings of the SPIE, **5487**, 1598-1607, 2004
65. Beasley, Matthew; Morse, Jon A.; **Scowen, Paul A**., "*Telescope and focal plane instrumentation for the ORION MIDEX Mission*", SPIE Meeting, Glasgow, Scotland, June 2004, Proceedings of the SPIE, **5487**, 1581-1586, 2004
64. Dufour, R.; Moore, B.; Hester, J.; **Scowen, P.**; Buckalew, B., "*New HST Observations of the Wolf-Rayet Shell Nebula NGC 6888*", The Eight Texas-Mexico Conference on Astrophysics. Edited by M. Reyes-Ruiz &E. Vázquez-Semadeni. Revista Mexicana de Astronomía y Astrofisica Serie de Conferencias, **18**, 146, 2003
63. Moore, Brian D.; Hester, J. Jeff; **Scowen, Paul A.**; Walter, Donald K.; *"Analysis and Models of Photoionized Structures Seen in Hubble Space Telescope Images of NGC 7635"*, AJ, **124**, 3305, 2002
62. Moore, Brian D.; Walter, Donald K.; Hester, J. Jeff; **Scowen, Paul A**.; Dufour, Reginald J.; Buckalew, Brent A.; *"Hubble Space Telescope Observations of the Windblown Nebula NGC 7635"*, AJ, **124**, 3313, 2002
61. Hester, J. J.; Mori, K.; Burrows, D.; Gallagher, J. S.; Graham, J. R.; Halverson, M.; Kader, A.; Michel, F. C.; **Scowen, P**.; *"Hubble Space Telescope and Chandra Monitoring of the Crab Synchrotron Nebula*", ApJL, **577**, L49, 2002
60. Mould, Jeremy R.; Ridgewell, Alex; Gallagher, John S., III; Bessell, Michael S.; Keller, Stefan; Calzetti, Daniela; Clarke, John T.; Trauger, John T.; Grillmair, Carl; Ballester, Gilda E.; Burrows, Christopher J.; Krist, John; Crisp, David; Evans, Robin; Griffiths, Richard; Hester, J. Jeff; Hoessel, John G.; Holtzman, Jon A.; **Scowen, Paul A**.; Stapelfeldt, Karl R.; Sahai, Ragvendra; Watson, Alan; Meadows, Vicki; "*Jet-induced Star Formation in Centaurus A*", ApJ, **536**, 266, 2000
59. Moore, B.D., Hester, J.J., and **Scowen, P.A.**; "*HST Observations of the Wolf-Rayet Nebula NGC 6888*", AJ, **119**, 2991, 2000
58. Vincent, Mark B.; Clarke, John T.; Ballester, Gilda E.; Harris, Walter M.; West, Robert A.; Trauger, John T.; Evans, Robin W.; Stapelfeldt, Karl R.; Crisp, David; Burrows, Christopher J.; Gallagher, John S.; Griffiths, Richard E.; Jeff Hester, J.; Hoessel, John G.; Holtzman, Jon A.; Mould, Jeremy R.; **Scowen, Paul A**.; Watson, Alan M.; Westphal, James A.; "*Jupiter's Polar Regions in the Ultraviolet as Imaged by HST/WFPC2: Auroral-Aligned Features and Zonal Motions*", Icarus, **143**, 205, 2000
57. Vincent, Mark B.; Clarke, John T.; Ballester, Gilda E.; Harris, Walter M.; West, Robert A.; Trauger, John T.;Evans, Robin W.; Stapelfeldt, Karl R.; Crisp, David; Burrows, Christopher J.; Gallagher, John S.; Griffiths, Richard E.; Jeff Hester, J.; Hoessel, John G.;

Holtzman, Jon A.; Mould, Jeremy R.; **Scowen, Paul A.**; Watson, Alan M.; Westphal, James A.; "*Mapping Jupiter's Latitudinal Bands and Great Red Spot Using HST/WFPC2 Far-Ultraviolet Imaging*", Icarus, **143**, 189, 2000

56. Monkiewicz, Jackie; Mould, Jeremy R.; Gallagher, John S., III; Clarke, John T.; Trauger, John T.; Grillmair, Carl J.; Ballester, Gilda E.; Burrows, Christopher J.; Crisp, David; Evans, Robin, W.; Griffiths, Richard; Hester, J. Jeff; Hoessel John G.; Holtzman, Jon A.; Krist, John E.; Meadows, Vikki; **Scowen, Paul A**.; Stapelfeldt, Karl R.; Sahai, Raghvendra; and Watson, Alan M.; "*The Age of the Sculptor Dwarf Spheroidal Galaxy from Imaging with WFPC2.*", PASP, **111**, 1392, 1999
55. Holtzman, Jon A.; Gallagher, John S., III; Cole, Andrew A.; Mould, Jeremy R.; Grillmair, Carl J.; Ballester, Gilda E.; Burrows, Christopher J.; Clarke, John T.; Crisp, David; Evans, Robin, W.; Griffiths, Richard; Hester, J. Jeff; Hoessel John G.; **Scowen, Paul A.**; Stapelfeldt, Karl R.; Trauger, John T.; and Watson, Alan M.; "*Observations and Implications of the Star Formation History of the Large Magellanic Cloud.*", AJ, **118**, 2262, 1999
54. Cole, Andrew A.; Tolstoy, Eline; Gallagher, John S., III; Hoessel John G.; Mould, Jeremy R.; Holtzman, Jon A.; Saha, Abhijit; Ballester, Gilda E.; Burrows, Christopher J.; Clarke, John T.; Crisp, David; Griffiths, Richard; Grillmair, Carl J.; Hester, J. Jeff; Krist, John E.; Meadows, Vikki; **Scowen, Paul A**.; Stapelfeldt, Karl R.; Trauger, John T.; Watson, Alan M.; and Westphal, James A.; "*Stellar Populations at the Center of IC 1613.*", AJ, **118**, 1657, 1999
53. Sahai, R., Dayal, A., Watson, A.M., Trauger, J.T., Stapelfeldt, K.R., Burrows, C.J., Gallagher, J.S. III, **Scowen, P.A**., Hester, J.J., Evans, R.W., Ballester, G.E., Clarke, J.T., Crisp, D., Griffiths, R.E., Hoessel, J.G., Holtzman, J.A., Krist, J.E., Mould, J.R.; "*The Etched Hourglass Nebula MYCN 18 I. HUBBLE SPACE TELESCOPE Observations*", AJ, **118**, 468, 1999
52. Matthews, L.D., Gallagher, J.S. III, Krist, J.E., Watson, A.M., Burrows, C.J., Griffiths, R.E., Hester, J.J., Trauger, J.T., Ballester, G.E., Clarke, J.T., Crisp, D., Evans, R.W., Hoessel, J.G. , Holtzman, J.A. , Mould, J.R. , **Scowen, P.A**., Stapelfeldt, K.R., Westphal, J.A.; "*WFPC2 Observations of Compact Star Cluster Nuclei in Low-Luminosity Spiral Galaxies*", AJ, **118**, 208, 1999
51. Stapelfeldt, K.R. , Watson, A.M., Krist, J. E., Burrows, C.J. , Crisp, D. , Ballester, G.E. , Clarke, J.T. , Evans, R.W. , Gallagher , J.S., Griffiths, R.E. , Hester, J.J. , Hoessel, J.G. , Holtzman, J.A. , Mould, J.R. , **Scowen, P.A**., Trauger, J.T. , "*A Variable Asymmetry in the Circumstellar Disk of HH 30*", ApJL, **516**, 95, 1999
50. Pahre, M.A., Mould, J.R., Dressler, A., Holtzman, J.A., Watson, A.M., Gallagher, J.S. III, Ballester, G.E., Burrows, C.J., Casertano, S., Clarke, J.T. , Crisp, D., Griffiths, R.E., Grillmair, C.J., Hester, J.J. , Hoessel, J.G., **Scowen, P.A**., Stapelfeldt, K.R. , Trauger, J.T., Westphal, J.A.; "*Detection of Surface Brightness Fluctuations in NGC 4373 Using the Hubble Space Telescope*", ApJ, **515**, 79, 1999
49. Krist, J.E., Stapelfeldt, K.R., Burrows, C.J., Hester, J.J., Watson, A.M., Ballester, G.E. , Clarke, J.T. , Crisp, D. , Evans, R.W., Gallagher, J.S. III, Griffiths, R.E., Hoessel, J.G., Holtzman, J.A., Mould, J.R., **Scowen, P.A**., Trauger, J.T., "*Hubble Space Telescope WFPC2 Imaging of XZ Tauri: Time Evolution of a Herbig-Haro Bow Shock*", ApJL, **515**, 35, 1999
48. Carlson, M.N., Holtzman, J.A., Grillmair, C.J., Mould, J.R., Griffiths, R.E., Ballester, G.E., Burrows, C.J., Clarke, J.T., Crisp, D., Evans, R.W., Gallagher, J.S. III, Hester, J.J., Hoessel, J.G., **Scowen, P.A**., Stapelfeldt, K.R., Trauger, J.T., Watson, A.M., Westphal, J.A., "*Deep Hubble Space Telescope Observations of Blue Star Clusters in NGC 3597*", AJ, **117**, 1700, 1999
47. Stapelfeldt, K.R. , Burrows, C.J. , Krist, J. E., Watson, A.M., Ballester, G.E. , Clarke, J.T. , Crisp, D. , Evans, R.W. , Gallagher , J.S., Griffiths, R.E. , Hester, J.J. , Hoessel, J.G. , Holtzman, J.A. , Mould, J.R. , **Scowen, P.A**., Trauger, J.T. , Westphal, J.A.; "*Hubble Space Telescope Imaging of the Circumstellar Nebulosity of T Tauri*", ApJ, **508**, 736, 1998
46. Lauer, T.R., Faber, S.M., Ajhar, A., Grillmair, C.J., **Scowen, P.A**., "*M32 +/- 1*", AJ, **116**, 2263, 1998
45. Trauger, J.T., Clarke, J.T., Ballester, G.E., Evans, R.W., Burrows, C.J., Crisp, D., Gallagher , J.S., Griffiths, R.E., Hester, J.J., Hoessel, J.G., Holtzman, J.A., Krist, J.E., Mould, J.R., Sahai, R., **Scowen, P.A**., Stapelfeldt, K.R., Watson, A.M., "*Saturn's hydrogen aurora: Wide field and planetary camera 2 imaging from the Hubble Space Telescope*", JGR, **103**, 20237, 1998
44. Cole, Andrew A.; Gallagher, John S., III; Mould, Jeremy R.; Clarke, John T.; Trauger, John T.; Watson, Alan M.; Ballester, Gilda E.; Burrows, Christopher J.; Casertano, Stefano; Crisp, David; Griffiths, Richard; Grillmair, Carl J.; Hester, J. Jeff; Hoessel John G.; Holtzman, Jon A.; **Scowen, Paul A**.; Stapelfeldt, Karl R.; and Westphal, James A.; "*Far-Ultraviolet and Visible Imaging of the Nucleus of M32.*", ApJ, **505**, 230, 1998
43. **Scowen, P.A.**, Hester, J.J. , Sankrit, R. , Gallagher , J.S. , Ballester, G.E. , Burrows, C.J. , Clarke, J.T. , Crisp, D. , Evans, R.W. , Griffiths, R.E. , Hoessel, J.G. , Holtzman, J.A. , Krist, J. , Mould, J.R. , Stapelfeldt, K.R. , Trauger, J.T. , Watson, A.M. and Westphal, J.A.; "*Ionization Structure in the 30 Doradus Nebula as seen with HST/WFPC-2*", AJ, **116**, 163, 1998
42. Sankrit, R., Hester, J.J., **Scowen, P.A.**, Ballester, G.E., Burrows, C.J., Clarke, J.T., Crisp, D., Evans, R.W., Gallagher, J.S.,III, Griffiths, R.E., Hoessel, J.G., Holtzman, J.A., Krist, J.E., Mould, J.R., Stapelfeldt, K.R., Trauger, J.T., Watson, A.M., Westphal, J.A., "*WFPC2 Studies of the Crab Nebula. II. Ionization Structure of the Crab Filaments*", ApJ, **504**, 344, 1998
41. Hester, J.J., Stapelfeldt, K.R., **Scowen, P.A**., "*Hubble Space Telescope WFPC2 Observations of HH 1-2*", AJ, **116**, 372, 1998
40. Krist, J.E., Stapelfeldt, K.R., Burrows, C.J., Ballester, G.E. , Clarke, J.T. , Crisp, D. , Evans, R.W., Gallagher, J.S. III, Griffiths, R.E., Hester, J.J., Hoessel, J.G., Holtzman, J.A., Mould, J.R., **Scowen, P.A.**, Trauger, J.T., Watson, A.M., Westphal, J.A., "*Hubble Space Telescope WFPC2 Imaging of FS Tauri and Haro 6-5B*", ApJ, **501**, 841, 1998
39. Carlson, M.N., Holtzman, J.A., Watson, A.M., Grillmair, C.J., Mould, J.R., Ballester, G.E., Burrows, C.J., Clarke, J.T., Crisp, D., Evans, R.W., Gallagher, J.S. III, Griffiths, R.E., Hester, J.J., Hoessel, J.G., **Scowen, P.A**., Stapelfeldt, K.R., Trauger, J.T., Westphal, J.A., "*Deep Hubble Space Telescope Observations of Star Clusters in NGC 1275*", AJ, **115**, 1778, 1998
38. Evans, R.W., Stapelfeldt, K.R., Peters, D.P., Trauger, J.T., Padgett, D.L., Ballester, G.E., Burrows, C.J., Clarke, J.T., Crisp, D., Gallagher, J.S. III, Griffiths, R.E., Grillmair, C.J., Hester, J.J., Hoessel, J.G., Holtzman, J.A., Krist, J.E., McMaster, M., Meadows, V., Mould, J.R., Ostrander, E., Sahai, R., **Scowen, P.A**., Watson, A.M., Westphal, J.A., "*Asteroid Trails in Hubble Space Telescope WFPC2 Images: First Results*", Icarus, **131**, 261, 1998
37. Geha, M.C., Holtzman, J.A., Mould, J.R., Gallagher, J.S. III, Watson, A.M., Cole, A.A., Grillmair, C.J., Ballester, G.E., Burrows, C.J., Clarke, J.T., Crisp, D., Evans, R.W., Griffiths, R.E., Hester, J.J., **Scowen, P.A**., Trauger, J.T., Westphal, J.A., "*Stellar Populations in Three Outer Fields of the Large Magellanic Cloud*", AJ, **115**, 1045, 1998
36. Sahai, R., Trauger, J.T., Watson, A.M., Stapelfeldt, K.R., Hester, J.J., Burrows, C.J., Ballester, G.E., Clarke, J.T., Crisp, D., Evans, R.W., Gallagher, J.S.,III, Griffiths, R.E., Hoessel, J.G., Holtzman, J.A., Mould, J.R., **Scowen, P.A.**, Westphal, J.A., "*Imaging of the Egg Nebula (CRL 2688) with WFPC2/HST: A History of AGB/Post--AGB Giant Branch Mass Loss*", ApJ, **493**, 301, 1998

35. Grillmair, C.J., Mould, J.R., Holtzman, J.A., Worthey, G., Ballester, G.E., Burrows, C.J., Clarke, J.T., Crisp, D., Evans, R.W., Gallagher, J.S., III, Griffiths, R.E., Hester, J.J., Hoessel, J.G., **Scowen, P.A.**, Stapelfeldt, K.R., Trauger, J.T., Watson, A.M., Westphal, J.A., "*Hubble Space Telescope Observations of the Draco Dwarf Spheroidal Galaxy*", AJ, **115**, 144, 1998
34. Cole, Andrew A.; Mould, Jeremy R.; Gallagher, John S., III; Clarke, John T.; Trauger, John T.; Ballester, Gilda E.; Burrows, Christopher J.; Casertano, Stefano; Crisp, David; Griffiths, Richard; Hester, J. Jeff; Hoessel John G.; Holtzman, Jon A.; **Scowen, Paul A**.; Stapelfeldt, Karl R.; and Westphal, James A.; "*Far-ultraviolet imaging of the Large Magellanic Cloud populous cluster NGC 1978 with WFPC2.*", AJ, **114**, 1945, 1997
33. Krist, John E.; Burrows, Christopher J.; Stapelfeldt, Karl R.; Ballester, Gilda E.; Clarke, John T.; Crisp, David; Evans, Robin W.; Gallagher, John S., III; Griffiths, Richard E.; Hester, J. Jeff; Holtzman, Jon A.; Hoessel, John G.; Mould, Jeremy R.; **Scowen, Paul A**.; Trauger, John T.; Watson, Alan M.; and Westphal, James A.; "*Hubble Space Telescope WFPC2 Images of Emission Nebulosity near XZ Tauri*", ApJ, **481**, 447, 1997
32. Stappers, B. W.; Mould, J. R.; Sebo, K. M.; Holtzman, J. A.; Gallagher, J. S., III; Watson, A. M.; Ballester, G. E.; Burrows, C. J.; Casertano, S.; Clarke, J. T.; Crisp, D.; Griffiths, R. E.; Hester, J. J.; Hoessel, J. G.; **Scowen, P. A.**; Stapelfeldt, K. R.; Trauger, J. T.; and Westphal, J. A.; "*The Star-Formation History in the Vicinity of NGC 1866 in the Large Magellanic Cloud*", PASP, **109**, 292, 1997
31. Holtzman, J.A., Mould, J.R., Gallagher, J.S.,III, Watson, A.M., Grillmair, C.J., Ballester, G.E., Burrows, C.J., Clarke, J.T., Crisp, D., Evans, R.W., Griffiths, R.E., Hester, J.J., Hoessel, J.G., **Scowen, P.A**., Stapelfeldt, K.R., Trauger, J.T., Westphal, J.A.; "*Stellar Populations in the Large Magellanic Cloud:Evidence for a Significant Number of Older Stars or a Steeper IMF?*", AJ, **113**, 656, 1997
30. Devereux, N.A., Duric, N., and **Scowen, P.A**., "*H□, Far Infrared and Thermal Radio Continuum Emission Within the Late-Type Spiral Galaxy M33*", AJ, **113**, 236, 1997
29. Grillmair, C.J., Faber, S.M., Lauer, T.R., Hester, J.J., Lynds, C.R., O'Neil, E.J. Jr., and **Scowen, P.A**., "*The Nuclear Region of M51 Imaged with the HST Planetary Camera*", AJ, **113**, 225, 1997; **Erratum**: AJ, **116**, 547, 1998
28. Burrows, Christopher J.; Stapelfeldt, Karl R.; Watson, Alan M.; Krist, John E.; Ballester, Gilda E.; Clarke, John T.; Crisp, David; Gallagher, John S., III; Griffiths, Richard E.; Hester, J. Jeff; Hoessel, John G.; Holtzman, Jon A.; Mould, Jeremy R.; **Scowen, Paul A**.; Trauger, John T., and Westphal, James A.; "*Hubble Space Telescope Observations of the Disk and Jet of HH 30*", ApJ, **473**, 437, 1996
27. Currie, Douglas G., Dowling, Daniel M., Shaya, Edward J., Hester, Jeff, **Scowen, Paul**, Groth, Edward J., Lynds, Roger and O'neil Earl J., Jr; "*Astrometric Analysis of the Homunculus of eta Carinae With the Hubble Space Telescope*", AJ, **112**, 1115, 1996
26. Mould, J.R., Watson, A.M., Gallagher, J.S. III, Ballester, G.E., Burrows, C.J., Casterano, S., Clarke, J.T., Crisp, D., Evans, R.W., Griffiths, R.E., Hester, J.J., Hoessel, J.G., Holtzman, J.A., **Scowen, P.A**., Stapelfeldt, K.R., Trauger, J.T., and Westphal, J.A., "*Low Mass Stars in an Outer Field in NGC 6397*", PASP, **108**, 682, 1996
25. Pinkney, J., Holtzman, J.A., Garasi, C., Watson, A.M., Gallagher, J.S. III, Ballester, G.E., Burrows, C.J., Casterano, S., Clarke, J.T., Crisp, D., Evans, R.W., Griffiths, R.E., Hester, J.J., Hoessel, J.G., Mould, J.R., **Scowen, P.A**., Stapelfeldt, K.R., Trauger, J.T., and Westphal, J.A, "*WFPC2 Observations of the Cooling Flow Elliptical in Abell 1795*", ApJ, **468**, L13, 1996
24. Jones, D. Heath, Mould, J.R., Watson, A.M., Grillmair, C., Gallagher, J.S. III, Ballester, G.E., Burrows, C.J., Casterano, S., Clarke, J.T., Crisp, D., Evans, R.W., Griffiths, R.E., Hester, J.J., Hoessel, J.G., Holtzman, J.A., **Scowen, P.A**., Stapelfeldt, K.R., Trauger, J.T., and Westphal, J.A., "*Visible and Far-Ultraviolet WFPC2 Imaging of the Nucleus of the Galaxy NGC 205*", ApJ, **466**, 742, 1996
23. Gallagher, J.S. III, Mould, J.R., Holtzman, J.A., Watson, A.M., Trauger, J.T., Ballester, G.E., Burrows, C.J., Casterano, S., Clarke, J.T., Crisp, D., Evans, R.W., Griffiths, R.E., Hester, J.J., Hoessel, J.G., **Scowen, P.A**., Stapelfeldt, K.R., and Westphal, J.A, "*Main-Sequence Stars and the Star Formation History of the Outer Disk in the Large Magellanic Cloud*", ApJ, **466**, 732, 1996
22. Soria, R., Mould, J.R., Watson, A.M., Gallagher, J.S. III, Ballester, G.E., Burrows, C.J., Casterano, S., Clarke, J.T., Crisp, D., Evans, R.W., Griffiths, R.E., Hester, J.J., Hoessel, J.G., Holtzman, J.A., **Scowen, P.A.**, Stapelfeldt, K.R., Trauger, J.T., and Westphal, J.A, "*Detection of the Tip of the Red Giant Branch in NGC 5128*", ApJ, **465**, 79, 1996
21. Mould, J.R., Watson, A.M., Gallagher, J.S. III, Ballester, G.E., Burrows, C.J., Casterano, S., Clarke, J.T., Crisp, D., Evans, R.W., Griffiths, R.E., Hester, J.J., Hoessel, J.G., Holtzman, J.A., **Scowen, P.A.**, Stapelfeldt, K.R., Trauger, J.T., and Westphal, J.A., "*Far-Ultraviolet Imaging of the Globular Cluster NGC 7099 with the Second Wide-Field and Planetary Camera*", ApJ, **461**, 762, 1996
20. Hester, J. J., Stone, J.M., **Scowen, P. A.**, Jun, B-I., Gallagher, J. S., Norman, M.L., Ballester, G. E., Burrows, C. J., Casertano, S., Clarke, J. T., Crisp, D., Evans, R. W., Griffiths, R. E., Hoessel, J. G., Holtzman, J. A., Krist, J., Mould, J. R., Sankrit, R., Stapelfeldt, K. R., Trauger, J. T., Watson, A. M., and Westphal, J. A., "*WFPC2 Studies of the Crab Nebula: III. Magnetic Rayleigh-Taylor Instabilities and the Origin of the Filaments*", ApJ, **456**, 225, 1996
19. Watson, A.M., Gallagher, J.S. III, Holtzman, J.A., Hester, J.J., Mould, J.R., Ballester, G.E., Burrows, C.J., Casterano, S., Clarke, J.T., Crisp, D., Evans, R.W., Griffiths, R.E., Hoessel, J.G., **Scowen, P.A**., Stapelfeldt, K.R., Trauger, J.T., and Westphal, J.A., "*The discovery of young, luminous, compact stellar clusters in the starburst galaxy NGC 253*", AJ, **112**, 534, 1996
18. Holtzman, J.A., Watson, A.M., Mould, J.R., Gallagher, J.S. III, Ballester, G.E., Burrows, C.J., Clarke, J.T., Crisp, D., Evans, R.W., Griffiths, R.E., Hester, J.J., Hoessel, J.G., **Scowen, P.A**., Stapelfeldt, K.R., Trauger, J.T., and Westphal, J.A., "*Star clusters in interacting and cooling flow galaxies*", AJ, **112**, 416, 1996
17. Hester, J.J., **Scowen, P.A**., Sankrit, R., Lauer, T.R., Ajhar, E.A., Baum, W.A., Code, A., Currie, D.G., Danielson, G.E., Ewald, S.P., Faber, S.M., Grillmair, C.J., Groth, E.J., Holtzman, J.A., Hunter, D.A., Kristian, J., Light, R.M., Lynds, C.R., Monet, D.G., O'Neil, E.J. Jr., Shaya, E.J., Seidelmann, K.P., and Westphal, J.A., "*Hubble Space Telescope WFPC2 Imaging of M16: Photoevaporation and Emerging Young Stellar Objects*", AJ, **111**, 2349, 1996
16. Moody, J. W., Roming, P. W. A., Joner, M. D., Hintz, E. G., Geisler, D., Durrell, P., **Scowen, P. A**., and Jee, R. O., "*Periodic Mass Outflow from the Nucleus of M101*", AJ, **110**, 2088, 1995
15. Burrows, C. J., Krist, J., Hester, J. J., Sahai, R., Trauger, J. T., Stapelfeldt, K. R., Gallagher, J. S., Ballester, G. E., Casertano, S., Clarke, J. T., Crisp, D., Evans, R. W., Griffiths, R. E., Hoessel, J. G., Holtzman, J. A., Mould, J. R., **Scowen, P. A**., Watson, A. M. and Westphal, J. A., "*HST Observations of the SN1987A Triple Ring Nebula*", ApJ, **452**, 680, 1995
14. **Scowen, P. A**., Hester, J. J., Code, A., Mackie, G., Lynds, C. R., and O'Neil, E. J., "*HST Imaging of the wind-blown lobe NGC 6165*", ApJ, **450**, 196, 1995

13. Stapelfeldt, K. R., Burrows, C. J., Krist, J., Trauger, J. T., Ballester, G. E., Casertano, S., Clarke, J. T., Crisp, D., Evans, R. W., Gallagher, J. S., Griffiths, R. E., Hester, J. J., Hoessel, J. G., Holtzman, J. A., Mould, J. R., **Scowen, P. A**., Watson, A. M., and Westphal, J. A., *"WFPC2 Imaging of the Circumstellar Nebulosity of HL Tauri*", ApJ, **449**, 888, 1995
12. Hester, J. J., **Scowen, P. A.**, Sankrit, R., Burrows, C. J., Gallagher, J. S., Holtzman, J. A., Watson, A. M., Trauger, J. T., Lynds, R., O'Neil, E. J., Ballester, G. E., Casertano, S., Clarke, J. T., Crisp, D., Evans, R. W., Griffiths, R. E., Hoessel, J. G., Krist, J., Mould, J. R., Stapelfeldt, K. R., and Westphal, J. A., "*WFPC2 Studies of the Crab Nebula: I. HST and ROSAT Imaging of the Synchrotron Nebula*", ApJ, **448**, 240, 1995
11. Hunter, D. A., Shaya, E. J., **Scowen, P. A.**, Hester, J. J., Groth, E. J., Lynds, R., and O'Neil, E. J., "*Gas Near the Center of 30 Doradus as Revealed by Hubble Space Telescope Images*", ApJ, **444**, 758, 1995
10. Holtzman, J. A., Hester, J. J., Casterano, S., Trauger, J. T., Ballester, G. E., Burrows, C. J., Clarke, J. T., Crisp, D., Gallagher, J. S., Griffiths, R. E., Hoessel, J. G., Mould, J. R., **Scowen, P. A**., Stapelfeldt, K. R., Watson, A. M., and Westphal, J. A., "*The Performance and Calibration of the WFPC-2*", PASP, **107**, 156, 1995
9. Watson, A. M., Mould, J. R., Gallagher, J. S., Ballester, G. E., Burrows, C. J., Casterano, S., Clarke, J. T., Crisp, D., Griffiths, R. E., Hester, J. J., Hoessel, J. G., Holtzman, J. A., **Scowen, P. A.**, Stapelfeldt, K. R., Trauger, J. T., and Westphal, J. A., "*Far Ultraviolet Imaging of the Globular Cluster NGC 6681 with WFPC-2*", ApJ, **435**, L55, 1994
8. Freedman, W.L., Madore, B.F., Stetson, Peter B., Hughes, S.M.G., Holtzman, J.A., Mould, J.R., Trauger, J.T., Gallagher, J.S., III, Ballester, G.E., Burrows, C.J., Casertano, S., Clarke, J.T., Crisp, D., Ferrarese, L., Ford, H., Graham, J. A., Griffiths, R.E., Hester, J.J., Hill, R., Hoessel, J.G., Huchra, J., Kennicutt, R.C., **Scowen, P.A**., Sparks, W., Stapelfeldt, K.R., Watson, A.M., Westphal, J., "*First Hubble Space Telescope observations of the brightest stars in the Virgo galaxy M100*", ApJ, **435**, L31, 1994
7. Trauger, J. T., Ballester, G. E., Burrows, C. J., Casterano, S., Clarke, J. T., Crisp, D., Evans, R. E., Gallagher, J. S., Griffiths, R. E., Hester, J. J., Hoessel, J. G., Holtzman, J. A., Krist, J., Mould, J. R., **Scowen, P. A.**, Stapelfeldt, K. R., Watson, A. M., and Westphal, J. A., *"WFPC-2 Early Performance On-orbit*", ApJ, **435**, L3, 1994
6. Devereux, N. A. and **Scowen, P. A**., *"The Origin of the Far Infrared Luminosity within the Spiral Galaxy M101*", AJ, **108**, 1244, 1994
5. **Scowen, P. A.**, Hester, J. J., Code, A. D., Mackie, G., and the WF/PC IDT, "*HST Imaging of the wind-blown lobe NGC 6165*", Revista Mexicana, **27**, 181, 1993
4. **Scowen, P. A.**, Dufour, R. J. and Hester, J. J., "*The HII Regions of the Galaxy M101*", AJ, **104**, 92, 1992 **Erratum:** AJ, **107**, 1203, 1994
3. **Scowen, P. A.**, "*The HII Regions of the Spiral Galaxy M101*", PASP, **103**, 902, 1991
2. Michel, F. C., **Scowen, P. A.**, Dufour, R. J. and Hester, J. J., *"Observation of a Pulsar Wind: CCD Polarimetry of the Crab Nebula*", ApJ, **368**, 463, 1991
1. Clayton, D. D., **Scowen, P. A.** and Liffman, K., *"Age Structure of Refractory Interstellar Dust and Isotopic Consequences*", ApJ, **346**, 531, 1989

Non-Refereed Publications

100. Knierman, Karen; Monkiewicz, Jacqueline; **Scowen, Paul**; Groppi, Christopher; "*Tidal Tales of Minor Mergers: Star Formation in the Tidal Tails of Minor Mergers*", 231st A.A.S. Meeting, Washington, DC, January 2018, abstract in *Bull.Am.Astron.Soc.*, **231**, 149.05
99. Shkolnik, Evgenya L.; Ardila, David; Barman, Travis; Beasley, Matthew; Bowman, Judd D.; Gorjian, Varoujan; Jacobs, Daniel; Jewell, April; Llama, Joe; Meadows, Victoria; Nikzad, Shouleh; **Scowen, Paul**; Swain, Mark; Zellem, Robert; "*Monitoring the High-Energy Radiation Environment of Exoplanets Around Low-mass Stars with SPARCS (Star-Planet Activity Research CubeSat)*", 231st A.A.S. Meeting, Washington, DC, January 2018, abstract in *Bull.Am.Astron.Soc.*, **231**, 228.04
98. Monkiewicz, Jacqueline; Bowman, Judd D.; **Scowen, Paul**; "*Variations in Canonical Star-Forming Laws at Low Metallicity*", 231st A.A.S. Meeting, Washington, DC, January 2018, abstract in *Bull.Am.Astron.Soc.*, **231**, 312.05
97. **Scowen, Paul**; Clarke, John; Gaudi, B. Scott; Kiessling, Alina; Martin, Stefan; Somerville, Rachel; Stern, Daniel; HabEx Science and Technology Definition Team; "*General Astrophysics Science Enabled by the HabEx Ultraviolet Spectrograph (UVS)*", 231st A.A.S. Meeting, Washington, DC, January 2018, abstract in *Bull.Am.Astron.Soc.*, **231**, 355.36
96. Stern, Daniel; Clarke, John; Gaudi, B. Scott; Kiessling, Alina; Krause, Oliver; Martin, Stefan; **Scowen, Paul**; Somerville, Rachel; HabEx STDT, "General Astrophysics with the HabEx Workhorse Camera", 231st A.A.S. Meeting, Washington, DC, January 2018, abstract in *Bull.Am.Astron.Soc.*, **231**, 361.06
95. Pascale, E.; Butler, N.; Kilpatrick, B.; Korotkov, A.; Lewis, N.; Mauskopf, P.; Maxted, P.; Miko, L.; Nagler, P.; Netterfield, C. B.; Parmentier, V.; Patience, J.; Sarkar, S.; **Scowen, P.**; Tucker, G.; Waldmann, I.; Wen, Y.; "*The EXoplanet Infrared Climate TElescope (EXCITE)*", European Planetary Science Congress 2017, held 17-22 September, 2017 in Riga Latvia, id. EPSC2017-729
94. Knierman, Karen A.; Monkiewicz, Jacqueline A.; **Scowen, Paul A.**; Groppi, Christopher E., "*Tidal Tales of Minor Mergers: Star Formation in the Tidal Tails of Minor Mergers*", 230th A.A.S. Meeting, Austin, TX, June 2017, abstract in *Bull.Am.Astron.Soc.*, **230**, 214.06
93. Williams, D. A.; Lopes, R. M. C.; Castillo-Rogez, J.; **Scowen, P.**, "*CubeSats to Support Future Io Exploration*", 48th Lunar and Planetary Science Conference, held 20-24 March 2017, at The Woodlands, Texas. LPI Contribution No. 1964, id.1136
92. Knierman, Karen A.; **Scowen, Paul A**.; Groppi, Christopher E.; "*Tidal Tales II: Molecular Gas and Star Formation in the Tidal Tails of Minor Mergers*", 229th A.A.S. Meeting, Grapevine, TX, January 2017, abstract in *Bull.Am.Astron.Soc.*, **229**, 343.24
91. **Scowen, Paul A.**; Nemanich, Robert; Eller, Brianna; Yu, Hongbin; Mooney, Tom; Beasley, Matt; "*Use of Plasma Enhanced ALD to Construct Efficient Interference Filters for Astronomy in the FUV - Year 2 Update*", 229th A.A.S. Meeting, Grapevine, TX, January 2017, abstract in *Bull.Am.Astron.Soc.*, **229**, 238.34
90. Domagal-Goldman, S. D.; Gaudi, B. S.; Seager, S.; Mennesson, B.; Warfield, K.; Cahoy, K.; Feinberg, L. D.; Guyon, O.; Kasdin, N. J.; Mawet, D.; Robinson, T. D.; Rogers, L.; **Scowen, P. A.**; Somerville, R. S.; Stapelfeldt, K. R.; Stern, D.; Turnbull, M. C.; Marois, C.; Mouillet, D.; Prusti, T.; Quirrenbach, A.; Tamura, M.; Still, M.; Hudgins, D., "*HabEx: Finding and characterizing Habitable Exoplanets with a potential future flagship astrophysics mission*", AGU, Fall General Assembly 2016, abstract #P13C-02

89. Hardgrove, C.; Bell, J.; Starr, R.; Colaprete, T.; Robinson, M.; Drake, D.; Lazbin, I.; West, G.; Johnson, E.; Christian, J.; Genova, A.; Dunham, D.; Williams, B.; Nelson, D.; Babuscia, A.; **Scowen, P.**; Cheung, K. M.; Klesh, A.; Kerner, H.; Deran, A.; Amzler, R. J.; Burnham, Z.; Lightholder, J.; Wren, P.; Godber, A.; Beasley, M., "*The Lunar Polar Hydrogen Mapper (LunaH-Map) CubeSat Mission*", 47th Lunar and Planetary Science Conference, held March 21-25, 2016 at The Woodlands, Texas. LPI Contribution No. **1903**, p.2654
88. Knierman, Karen A.; **Scowen, Paul A**.; Groppi, Christopher E.; "*Tidal Tales: Comparison of Star Formation in Tidal Tails of Minor Mergers*", 227th A.A.S. Meeting, Kissimmee, FL, January 2016, abstract in *Bull.Am.Astron.Soc.*, **227**, 240.16
87. Duke Miller, Alex; **Scowen, Paul A**.; Veach, Todd; "*Focal plane actuation for the development of a high resolution suborbital telescope*", 227th A.A.S. Meeting, Kissimmee, FL, January 2016, abstract in *Bull.Am.Astron.Soc.*, **227**, 147.31
86. Hardgrove, C.; Bell, J.; Thangavelautham, J.; Klesh, A.; Starr, R.; Colaprete, T.; Robinson, M.; Drake, D.; Johnson, E.; Christian, J.; Genova, A.; Dunham, D.; Williams, B.; Nelson, D.; Babuscia, A.; **Scowen, P.**; Cheung, K. M.; McKinney, T.; Taits, A.; Hernandez, V.; Wren, P.; Thoesen, A.; Godber, A.; Beasley, M.; "*The Lunar Polar Hydrogen Mapper (LunaH-Map) Mission: Mapping Hydrogen Distributions in Permanently Shadowed Regions of the Moon's South Pole*", Annual Meeting of the Lunar Exploration Analysis Group, held 20-22 October, 2015 in Columbia, Maryland. LPI Contribution No. **1863**, p.2035
85. **Scowen, Paul A**., "*The Future of UV-Visible Astronomy from Space - the NASA COPAG SIG*", IAU General Assembly, Meeting #29, Honolulu, HI, August 2015, #2252931
84. Knierman, Karen; **Scowen, P.**; Groppi, C.; Veach, T.; Knezek, P. M.; Mullan, B.; Konstanopoulos, I. S.; Charlton, J. C.; Jansen, R.; Wehner, E., "*Tidal Tales of Minor Mergers: Star Formation in Minor Merger Tidal Tails*", TMT in the Astronomical Landscape of the 2020s, Thirty Meter Telescope Science Forum, held 16-19 July, 2014 in Tucson Arizona, id. 51
83. Liebst, Kelley; **Scowen, Paul A**.; "*Gaining Insight into Star Formation: Resolved Star Formation Laws*", 224th A.A.S. Meeting, Boston, MA, June 2014, abstract in *Bull.Am.Astron.Soc.*, **224**, 215.05
82. Balasubramanian, Kunjithapatham; Nikzad, S.; Hennessy, J.; Raouf, N.; Green, J. C.; **Scowen, P. A.**; "*Protective coatings for FUV to NIR advanced telescope mirrors*", 223rd A.A.S. Meeting, Washington, DC, January 2014, abstract in *Bull.Am.Astron.Soc.*, **223**, 344.02
81. Knierman, Karen A.; **Scowen, P. A.**; Veach, T.; Groppi, C. E.; Mullan, B. L.; Knezek, P.; Konstantopoulos, I.; Charlton, J. C.; "*Tidal Tales of Minor Mergers II: Comparing Star Formation in the Tidal Tails of NGC 2782*", 221st A.A.S. Meeting, Long Beach, CA, January 2013, abstract in *Bull.Am.Astron.Soc.*, **221**, 441.02
80. **Scowen, Paul A**.; "*The HORUS Observatory - A Next Generation 2.4m UV-Optical Mission To Study Planetary, Stellar And Galactic Formation*", 221st A.A.S. Meeting, Long Beach, CA, January 2013, abstract in *Bull.Am.Astron.Soc.*, **221**, 439.04
79. Tumlinson, Jason; Aloisi, Alessandra; Kriss, Gerard; France, Kevin; McCandliss, Stephan; Sembach, Ken; Fox, Andrew; Tripp, Todd; Jenkins, Edward; Beasley, Matthew; Danforth, Charles; Shull, Michael; Stocke, John; Lehner, Nicolas; Howk, Christopher; Froning, Cynthia; Green, James; Oliveira, Cristina; Fullerton, Alex; Blair, Bill; Kruk, Jeff; Sonneborn, George; Penton, Steven; Wakker, Bart; Prochaska, Xavier; Vallerga, John; **Scowen, Paul**; "*Unique Astrophysics in the Lyman Ultraviolet*", arXiv:1209.3272, 2012
78. France, Kevin; Beasley, Matthew; Ardila, David R.; Bergin, Edwin A.; Brown, Alexander; Burgh, Eric B.; Calvet, Nuria; Chiang, Eugene; Cook, Timothy A.; Désert, Jean-Michel; Ebbets, Dennis; Froning, Cynthia S.; Green, James C.; Hillenbrand, Lynne A.; Johns-Krull, Christopher M.; Koskinen, Tommi T.; Linsky, Jeffrey L.; Redfield, Seth; Roberge, Aki; Schindhelm, Eric R.; **Scowen, Paul A.**; Stapelfeldt, Karl R.; Tumlinson, Jason; "*From Protoplanetary Disks to Extrasolar Planets: Understanding the Life Cycle of Circumstellar Gas with Ultraviolet Spectroscopy*", arXiv:1208.2270, 2012
77. Hartigan, Patrick; Johns-Krull, Christopher M.; **Scowen, Paul**; "*Inferring Rotation Periods of Young Stars from Synoptic Observations*", *New Horizons in Time-Domain Astronomy*, Proceedings of the International Astronomical Union, IAU Symposium, **285**, 327-330, 2012
76. Shaklan, Stuart; Spergel, D.; Kasdin, N.; **Scowen, P.**; Lisman, P.; Thomson, M.; Cady, E.; "*A Probe-Class Exoplanet Mission with a Starshade*", 219th A.A.S. Meeting, Austin, TX, Jan 2012, abstract in *Bull.Am.Astron.Soc.*, **219**, 155.11
75. Veach, Todd; **Scowen, P.**; Beasley, M.; Nikzad, S.; "Imaging System for a Sub-Orbital Sounding Rocket Mission Based Upon Next Generation Detector Technology", 218th A.A.S. Meeting, Boston, MA, May 2011, abstract in *Bull.Am.Astron.Soc.*, **218**, 409.05
74. **Scowen, Paul A.**; Beasley, M.; Cooke, B.; Woodruff, B.; Calzetti, D.; Desch, S.; Fullerton, A.; Gallagher, J.; Hartigan, P.; Jansen, R.; Lauer, T.; O'Connell, R.; Oey, S.; Padgett, D.; Roberge, A.; Siegmund, O.; Smith, N.; Stern, D.; Tumlinson, J.; Windhorst, R.; "*The HORUS Observatory - a Next Generation Mission to Study Planetary, Stellar and Galactic Formation*", 215th A.A.S. Meeting, Washington, DC, January 2010, abstract in *Bull.Am.Astron.Soc.*, **215**, 481.06
73. Jansen, R.A., **Scowen, P.A**., Beasley, M., Calzetti, D., Desch, S., Fullerton, A., Gallagher, J., Malhotra, S., McCaughrean, M., Nikzad, S., O'Connell, R., Oey, S., Padgett, D., Rhoads, J., Roberge, A., Siegmund, O., Smith, N., Stern, D., Tumlinson, J., Windhorst, R., Woodruff, R., Sembach, K., & Spergel, D., "*From Cosmic Dawn to Our Solar System: A Next-Generation UV-Optical Space Facility for the Study of Star Formation*", 2009, presented at the "Beyond JWST..." workshop held at STScI, Baltimore MD, Mar 26-27
72. Sembach, Kenneth; Ebbets, D.; Argabright, V.; Beasley, M.; Blouke, M.; Green, J.; Jenkins, E.; MacKenty, J.; Oegerle, W.; Prochaska, J. X.; Shull, J. M.; Siegmund, O.; Tripp, T.; Woodgate, B.; **Scowen, P**.; Spergel, D.; "*A High Sensitivity Ultraviolet Spectrograph for the THEIA Mission*", 213th A.A.S. Meeting, Long Beach, CA, January 2009, abstract in *Bull.Am.Astron.Soc.*, **213**, 458.01
71. **Scowen, Paul A.**; Jansen, R.; Beasley, M.; Macenka, S.; Shaklan, S.; Calzetti, D.; Desch, S.; Fullerton, A.; Gallagher, J.; Malhotra, S.; McCaughrean, M.; Nikzad, S.; O'Connell, R.; Oey, S.; Padgett, D.; Rhoads, J.; Roberge, A.; Siegmund, O.; Smith, N.; Stern, D.; Tumlinson, J.; Windhorst, R.; Woodruff, R.; Spergel, D.; Sembach, K.; "*Design and Implementation of the Widefield High-resolution UV/Optical Star Formation Camera for the THEIA Mission*", 213th A.A.S. Meeting, Long Beach, CA, January 2009, abstract in *Bull.Am.Astron.Soc.*, **213**, 458.02
70. Jansen, Rolf; **Scowen, P.**; Beasley, M.; SFC Science Team:; Calzetti, D.; Desch, S.; Fullerton, A.; Gallagher, J.; Malhotra, S.; McCaughrean, M.; Nikzad, S.; O'Connell, R.; Oey, S.; Padgett, D.; Rhoads, J.; Roberge, A.; Siegmund, O.; Smith, N.; Stern, D.; Tumlinson, J.; Windhorst, R.; Woodruff, R.; "*From Cosmic Dawn to Our Solar System: Design Reference Science Program for the Star Formation Camera aboard the Theia Space Telescope*", 213th A.A.S. Meeting, Long Beach, CA, January 2009, abstract in *Bull.Am.Astron.Soc.*, **213**, 458.03
69. Spergel, David N.; Kasdin, J.; Belikov, R.; Atcheson, P.; Beasley, M.; Calzetti, D.; Cameron, B.; Copi, C.; Desch, S.; Dressler, A.; Ebbets, D.; Egerman, R.; Fullerton, A.; Gallagher, J.; Green, J.; Guyon, O.; Heap, S.; Jansen, R.; Jenkins, E.; Kasting, J.; Keski-Kuha, R.; Kuchner, M.; Lee, R.; Lindler, D.; Linfield, R.; Lisman, D.; Lyon, R.; Malhotra, S.; Mathews, G.; McCaughrean, M.; Mentzel, J.;

Mountain, M.; NIkzad, S.; O'Connell, R.; Oey, S.; Padgett, D.; Parvin, B.; Procashka, J.; Reeve, W.; Reid, I. N.; Rhoads, J.; Roberge, A.; Saif, B.; **Scowen, P.**; Seager, S.; Seigmund, O.; Sembach, K.; Shaklan, S.; Shull, M.; Soummer, R.; "*THEIA: Telescope for Habitable Exoplanets and Interstellar/Intergalactic Astronomy*", 213th A.A.S. Meeting, Long Beach, CA, January 2009, abstract in *Bull.Am.Astron.Soc.*, **213**, 458.04

68. Seager, Sara; Spergel, D.; **Scowen, P.**; Jansen, R.; Sembach, K.; Dressler, A.; Heap, S.; Jenkins, E.; Kasdin, J.; Kuchner, M.; Lindler, D.; Prochaska, J. X.; Rhoads, J.; Roberge, A.; "*THEIA Science and General Astrophysics*", 213th A.A.S. Meeting, Long Beach, CA, January 2009, abstract in *Bull.Am.Astron.Soc.*, **213**, 458.08
67. Beasley, Matthew N.; Scowen, P.; "*Ultraviolet Instrumentation for the NASA Sub-orbital Program*", 213th A.A.S. Meeting, Long Beach, CA, January 2009, abstract in *Bull.Am.Astron.Soc.*, **213**, 475.12
66. Jansen, R.A., **Scowen, P.**, Beasley, M., and the **SFO** Science Team, "*From Cosmic Dawn to Our Solar System: A Next-Generation UV-Optical Space Facility for the Study of Star Formation*", 2008, presented at the JENAM2008 conference, Vienna (Austria), Sep 8-12
65. Kaleida, Catherine C.; **Scowen, P. A**., "*A Catalog of Star Cluster Parameters in the Interacting Galaxy System of M51 and NGC 5195*", 210th A.A.S. Meeting, Honolulu, HI, May 2007, abstract in *Bull.Am.Astron.Soc.*, **210**, 16.02
64. **Scowen, Paul A**.; Nikzad, S.; Veach, T.; Beasley, M.; and the Orion Science Team, "*The Orion MIDEX Mission to Image and Survey Star Formation Near and Far*", 210th A.A.S. Meeting, Honolulu, HI, May 2007, abstract in *Bull.Am.Astron.Soc.*, **210**, 86.11
63. Veach, Todd; **Scowen, P.**; Nikzad, S.; "*Next Generation Silicon Based Detector Characterization in the LASI Lab at Arizona State University*", 210th A.A.S. Meeting, Honolulu, HI, May 2007, abstract in *Bull.Am.Astron.Soc.*, **210**, 82.10
62. Kaleida, C. C.; **Scowen, P. A**.; Kennicutt, R. C., Jr.; Gallagher, J. S., III; Ciardullo, R.; Morse, J. A., "*Multiwavelength Analysis of the Star Formation process in M51*", 207th A.A.S. Meeting, Washington, DC, January 2006, abstract in *Bull.Am.Astron.Soc.*, **207**, 185.02
61. **Scowen, P. A.**; Morse, J. A.; Beasley, M.; Veach, T.; ORION Science Team, "*ORION: Hierarchical Space-based Observations of Star Formation, From Near to Far*", 207th A.A.S. Meeting, Washington, DC, January 2006, abstract in *Bull.Am.Astron.Soc.*, **207**, 130.01
60. Will, L. M.; Cook, J.; **Scowen, P.**, "*Morphological Classes and Stellar Populations of Galaxies in Introductory Astronomy Labs at Arizona State University*", 206th A.A.S. Meeting, Minneapolis, MN, June 2005, abstract in *Bull.Am.Astron.Soc.*, **206**, 02.08
59. Corbin, M. R.; Vacca, W. D.; Hibbard, J. E.; Somerville, R. S.; Jansen, R. A.; Windhorst, R.; **Scowen, P. A**.; "*Hubble Space Telescope Imaging of the Extremely Metal-Poor Galaxy SDSS J0133+1342*", 205th A.A.S. Meeting, San Diego, CA, January 2005, abstract in *Bull.Am.Astron.Soc.*, **205**, 169.06
58. **Scowen, P.**; Morse, J.; Beasley, M.; Hester, J.; Windhorst, R.; Desch, S.; Jansen, R.; Calzetti, D.; Padgett, D.; Hartigan, P.; Oey, S.; Bally, J.; Gallagher, J.; O'Connell, R.; Kennicutt, R.; Lauer, T.; "*A Systematic Survey of Star Formation with the ORION MIDEX Mission*", 205th A.A.S. Meeting, San Diego, CA, January 2005, abstract in *Bull.Am.Astron.Soc.*, **205**, 109.05
57. Healy, K. R.; Hester, J. J.; **Scowen, P. A.**; Snider, K. D.; "*HST WFPC2 Imaging of the G353.2+0.9 HII region in NGC 6357*", 205th A.A.S. Meeting, San Diego, CA, January 2005, abstract in *Bull.Am.Astron.Soc.*, **205**, 105.02
56. Morse, J.; **Scowen, P.**; Beasley, M.; Woodruff, R.; (Horus Mission Development Team), "*The HORUS origins science mission*", 205th A.A.S. Meeting, San Diego, CA, January 2005, abstract in *Bull.Am.Astron.Soc.*, **205**, 100.08
55. Will, L.; Ryan, R.; **Scowen, P.**, "*Observing a Transiting Planet in Introductory Astronomy Labs at Arizona State University"*, 204th A.A.S. Meeting, Denver, CO, May 2004, abstract in *Bull.Am.Astron.Soc.*, **204**, 12.03
54. **Scowen, P.**; Morse, J.; Beasley, M.; Hester, J.; Windhorst, R.; Desch, S.; Jansen, R.; Calzetti, D.; Padgett, D.; Hartigan, P.; Oey, S.; Bally, J.; Gallagher, J.; O'Connell, R.; Kennicutt, R.; Lauer, T.; "*A Systematic Survey of Star Formation with the ORION MIDEX Mission*", 204th A.A.S. Meeting, Denver, CO, May 2004, abstract in *Bull.Am.Astron.Soc.*, **204**, 11.04
53. Morse, J.; **Scowen, P.**; Hester, J.; Beasley, M.; Lauer, T.; ORION Science Team, "*Dark Energy, High-redshift Galaxies, and Star Formation with ORION: HST-SM5 Wide Field Camera*", 203rd A.A.S. Meeting, Atlanta, GA, January 2004, abstract in *Bull.Am.Astron.Soc.*, **203**, 46.06
52. **Scowen, P.**; Morse, J.; Beasley, M.; Hester, J.; Windhorst, R.; Jansen, R.; Lauer, T.; Danielson, E.; Sepulveda, C.; Olarte, G.; ORION MIDEX Science Team, "*Space-based Observations of Star Formation using ORION: THE MIDEX*", 203rd A.A.S. Meeting, Atlanta, GA, January 2004, abstract in *Bull.Am.Astron.Soc.*, **203**, 07.08
51. Dufour, R.; Moore, B.; Hester, J.; **Scowen, P.**; Buckalew, B., "*New HST Observations of the Wolf-Rayet Shell Nebula NGC 6888*", 8th Texas-Mexico Conference on Astrophysics, *Revista Mexicana de Astronomía y Astrofísica*, **18**, 146, 2003
50. Will, L. M.; **Scowen, P.**; *"Bringing Astronomy Labs into the 21st Century at Arizona State University – Update*", 201st A.A.S. Meeting, Seattle, WA, January 2003, abstract in *Bull.Am.Astron.Soc.*, **201**, 88.09
49. Dufour, R. J.; Moore, B. D.; Hester, J. J.; **Scowen, P. A.**; Buckalew, B. A.; *"New HST Observations of the Wolf-Rayet Nebula NGC 6888*", 200th A.A.S. Meeting, Albuquerque, NM, June 2002, abstract in *Bull.Am.Astron.Soc.*, **200**, 74.02
48. Hester, J.; Mori, K.; Burrows, D.; **Scowen, P**.; Halverson, M.; Michel, C.; Gallagher, J.; Graham, J.; "*HST and Chandra Monitoring of the Crab Synchrotron Nebula*", 199th A.A.S. Meeting, Washington, DC, January 2002, abstract in *Bull.Am.Astron.Soc.*, **199**, 126.14
47. **Scowen, P.A.**; "*Taking Introductory Astronomy Labs into the 21st Century – New Approaches and New Pitfalls*", 197th A.A.S. Meeting, San Diego, CA, January 2001, abstract in *Bull.Am.Astron.Soc.*, **197**, 137.06
46. Walter, D. K.; **Scowen, P. A.**; Hester, J. J.; Moore, B. D.; Dufour, R. J.; Hartigan, P. M.; Buckalew, B. "*New HST WFPC-2 Images of the Bubble Nebula, NGC 7635*", 195th A.A.S. Meeting, Atlanta, GA, January 2000, abstract in *Bull.Am.Astron.Soc.*, **195**, 53.07
45. Moore, B. D.; Hester, J. J.; **Scowen, P. A.**; Walter, D. K.; Dufour, R. J.; Hartigan, P. M.; Buckalew, B.; "*Analysis of HST WFPC-2 Images of NGC 7635*", 195th A.A.S. Meeting, Atlanta, GA, January 2000, abstract in *Bull.Am.Astron.Soc.*, **195**, 53.06
44. Buckalew, B., Dufour, R., Ghavamian, P., Hartigan, P., Walter, D., Hester, J. and **Scowen, P.**; "*HST STIS Spectroscopy of the Bubble Nebula, NGC 7635*", 194th A.A.S. Meeting, Chicago, IL, June 1999, abstract in *Bull.Am.Astron.Soc.*, **194**, 47.10
43. Hester, J. J.; **Scowen, P. A.**, Stapelfeldt, K.R. and Krist, J.E; "*HST WFPC2 Observations of EGGs and a YSO Jet in M 20*", 194th A.A.S. Meeting, Chicago, IL, June 1999, abstract in *Bull.Am.Astron.Soc.*, **194**, 68.10
42. Moore, B. D.; Hester, J. J.; **Scowen, P. A.** and Walter, D.K.; "*Analysis of HST WF/PC and WFPC2 Images of Wind-Blown Nebulae*", 194th A.A.S. Meeting, Chicago, IL, June 1999, abstract in *Bull.Am.Astron.Soc.*, **194**, 71.06
41. Moore, B. D.; Hester, J. J.; and **Scowen, P. A.**; "*HST WF/PC Observations of the Wind-Blown Nebula NGC 7635*", 193rd A.A.S. Meeting, Austin, TX, January 1999, abstract in *Bull.Am.Astron.Soc.*, **193**, 69.10

40. **Scowen, P.A**., Chu, Y.-H. and Gruendl, R.; "*A High Resolution Optical Summary of the Structure and Dynamics of 30 Doradus*", 190th I.A.U. Symposium on the Magellanic Clouds, Victoria, B.C., CANADA, to appear in proceedings published in ASP Conference Series, 1998
39. Moore, B. D.; Hester, J. J.; and **Scowen, P. A**.; "*HST Observations Of The Wind-Blown Nebula NGC 6888*", 190th A.A.S. Meeting, Winston-Salem, NC, June 1997, abstract in *Bull.Am.Astron.Soc.*, **190**, 7.01
38. **Scowen, P. A**.; Hester, J. J.; Gallagher, J. S., III; Wilcots, E.; Idt, The Wfpc-2, "*HST WFPC-2 Observations of Typical Star Formation in M101*", 189th A.A.S. Meeting, Toronto, Ontario, CANADA, January 1997, abstract in *Bull.Am.Astron.Soc.*, **189**, 68.08
37. Devereux, N.A., Duric, N., and **Scowen, P.A.**, "*H□, Far Infrared and Thermal Radio Continuum Emission Within the Late-Type Spiral Galaxy M33*", University of Maryland October Conference on Astrophysics: Star Formation Near and Far, October 1996, proceedings to appear
36. **Scowen, P.A.**, Hauschildt, P.H., Aufdenberg, J.A., and Sankrit, R.*, "Preliminary Results from the ASU/UGA O-star Project*", University of Maryland October Conference on Astrophysics: Star Formation Near and Far, October 1996, proceedings to appear
35. Dowling, D., Currie, D., Shaya, E., Hester, J., **Scowen, P.**, and the WF/PC IDT, "*A New 3-D Model for the Homunculus of eta Carinae*", 188th A.A.S. Meeting, Madison, WI, June 1996, abstract in *Bull.Am.Astron.Soc.*, **28**, 954
34. Sankrit, R., Hester, J.J., and **Scowen, P.A.**, "*Ionization structure of the Crab Filaments*", 188th A.A.S. Meeting, Madison, WI, June 1996, abstract in *Bull.Am.Astron.Soc.*, **28**, 951
33. Michel, F.C., **Scowen, P.A.**, Hester, J.J., Sankrit, R., Graham, J.R., Watson, A.M., and Gallagher, J.S. III, "*Observation of an Apparent Shock Transition in a Relativistic Pulsar Wind*", 188th A.A.S. Meeting, Madison, WI, June 1996, abstract in *Bull.Am.Astron.Soc.*, **28**, 951
32. **Scowen, P.A.**, Hester, J.J., Sankrit, R., Watson, A.M., Michel, F.C., Graham, J.R., and Gallagher, J.S. III, "*Dynamics and Magnetic Morphology of the Outer Crab Synchrotron Nebula*", 188th A.A.S. Meeting, Madison, WI, June 1996, abstract in *Bull.Am.Astron.Soc.*, **28**, 951
31. Watson, A.M., Hester, J.J., Van Tassell, H., **Scowen, P.A.**, Sankrit, R., Michel, F.C., Graham, J.R., and Gallagher, J.S. III, "*The Polarization and Spectra Indices of The Inner Crab Synchrotron Nebula at WFPC2 Resolution*", 188th A.A.S. Meeting, Madison, WI, June 1996, abstract in *Bull.Am.Astron.Soc.*, **28**, 950
30. Graham, J.R., Sankrit, R., Hester, J.J., **Scowen, P.A.**, Michel, F.C., Watson, A.M., and Gallagher, J.S. III, "*The Remarkable Knot in the Inner Crab Nebula*", 188th A.A.S. Meeting, Madison, WI, June 1996, abstract in *Bull.Am.Astron.Soc.*, **28**, 950
29. Hester, J.J., **Scowen, P.A.**, Sankrit, R., Michel, F.C., Graham, J.R., Watson, A.M., and Gallagher, J.S. III, "*The Extremely Dynamic Structure of the Inner Crab Nebula*", 188th A.A.S. Meeting, Madison, WI, June 1996, abstract in *Bull.Am.Astron.Soc.*, **28**, 950
28. **Scowen, P. A.**, Hester, J. J., Gallagher, J. S., Lynds, R., O'Neil, E. J., Ballester, G. E., Clarke, J. T., Burrows, C. J., Krist, J., Casertano, S., Griffiths, R. E., Crisp, D., Evans, R. W., Stapelfeldt, K. R., Trauger, J. T., Hoessel, J. G., Holtzman, J., Watson, A. M., Mould, J. R. and Westphal, J. A., "*Ionization Structure in the 30 Doradus Nebula from WFPC-2 Imaging*", 185th A. A. S. Meeting, Tucson, AZ, January 1995, abstract in *Bull. Am. Astron. Soc.*, **26**, 1452
27. Watson, A. M., Gallagher, J. S., Hester, J. J., **Scowen, P. A.**, Ballester, G., Burrows, C. J., Casertano, S., Clarke, J., Crisp, D., Evans, R. W., Griffiths, R. E., Hoessel, J. G., Holtzman, J., Mould, J. R., Stapelfeldt, K. R., Trauger, J. T. and Westphal, J. A., "*WFPC-2 Observations of the Nuclear Starburst in NGC 253*", 185th A. A. S. Meeting, Tucson, AZ, January 1995, abstract in *Bull. Am. Astron. Soc.*, **26**, 1432
26. Stapelfeldt, K. R., Burrows, C. J., Krist, J., Watson, A. M., Trauger, J. T., Ballester, G., Casertano, S., Clarke, J., Crisp, D., Evans, R. W., Gallagher, J. S., Griffiths, R. E., Hester, J. J., Hoessel, J. G., Holtzman, J., Mould, J. R., **Scowen, P. A.** and Westphal, J. A., "*WFPC-2 Observations of the HH 30 Disk and Jet*", 185th A. A. S. Meeting, Tucson, AZ, January 1995, abstract in *Bull. Am. Astron. Soc.*, **26**, 1387
25. Hester, J. J., **Scowen, P. A.**, Stapelfeldt, K., Lynds, R., O'Neil, E. J. and the WF/PC IDT, "*WFPC-2 Imaging of HH 1-2 and HH 34*", 185th A. A. S. Meeting, Tucson, AZ, January 1995, abstract in *Bull. Am. Astron. Soc.*, **26**, 1386
24. Roming, P. W. A., Moody, J. W., Joner, M. D., Hintz, E. G., Geisler, D., Durrell, P., **Scowen, P. A.** and Jee, R. O., "*Periodic Mass Outflow from the Nucleus of M101: Knots, Bubbles, Geysers and Trailing Arms*", 185th A. A. S. Meeting, Tucson, AZ, January 1995, abstract in *Bull. Am. Astron. Soc.*, **26**, 1343
23. Mould, J. R., Watson, A. M., Gallagher, J. S., Ballester, G., Burrows, C. J., Casertano, S., Clarke, J., Crisp, D., Hester, J. J., Hoessel, J. G., Holtzman, J., Griffiths, R. E., Krist, J., **Scowen, P.**, Stapelfeldt, K. R., Trauger, J. T. and Westphal, J. A. (WFPC-2 Science Team), "*Far Ultraviolet Imaging of the Core of NGC 6681 with WFPC-2*", 184th A. A. S. Meeting, Minneapolis, MN, May 1994, abstract in *Bull. Am. Astron. Soc.*, **26**, 956
22. **Scowen, P. A.**, Hester, J. J., Gallagher, J. S., Lynds, R., O'Neil, E. J. Jr., Currie, D. G., and the WF/PC and WFPC-2 IDTs, "*HST WFPC-2 Observations of the Inner Synchrotron Component of the Crab Nebula*", 184th A. A. S. Meeting, Minneapolis, MN, May 1994, abstract in *Bull. Am. Astron. Soc.*, **26**, 951
    See Also: "*AAS Meeting: Minneapolis, Minnesota*", Stephens, S. 1994, *Mercury*, **23**, Number 3, 13
    "*A Fresh Look at a Familiar Supernova*", Cowen, R. 1994, *Science News*, **146**, 90
21. Hester, J. J., **Scowen, P. A.**, Gallagher, J., and the WFPC-2 IDT, "*HST WFPC-2 Observations of the Outer Optical Filaments of the Crab Nebula*", 184th A. A. S. Meeting, Minneapolis, MN, May 1994, abstract in *Bull. Am. Astron. Soc.*, **26**, 951
    See Also: "*AAS Meeting: Minneapolis, Minnesota*", Stephens, S. 1994, *Mercury*, **23**, Number 3, 13
    "*A Fresh Look at a Familiar Supernova*", Cowen, R. 1994, *Science News*, **146**, 90
20. Lynds, R., O'Neil, E. J., Jr., **Scowen, P. A.**, and members of the Wide-Field/Planetary Camera IDT (WF/PC), "*High-resolution HST images of Cygnus-A*", 184th A. A. S. Meeting, Minneapolis, MN, May 1994, abstract in *Bull. Am. Astron. Soc.*, **26**, 941
19. Gallagher, J., Watson, A., Hester, J., Holtzman, J., Hughes, S., **Scowen, P.**, Sparks, W., Freedman, W., Kennicutt, R., Mould, J., Trauger, J., Ballester, G., Burrows, C., Clarke, J., Crisp, D., Griffiths, R., Hoessel, J., Krist, J., Marcum, P., Stapelfeldt, K., Westphal, J., "*Exploring the Center of the Giant Virgo Cluster Spiral Galaxy M100 with the HST Planetary Camera 2*", 184th A. A. S. Meeting, Minneapolis, MN, May 1994, abstract in *Bull. Am. Astron. Soc.*, **26**, 939
18. Currie, D. G., Dowling, D. J., Avizonis, P. V., Hester, J. J., **Scowen, P. A.**, Groth, E. J., WF/PC IDT, WFPC-2 IDT, "*Hubble Astrometry and the 3D Structure of eta Carinae*", 184th A. A. S. Meeting, Minneapolis, MN, May 1994, abstract in *Bull. Am. Astron. Soc.*, **26**, 914

17. Grillmair, C. J., Faber, S. M., Hester, J. J., **Scowen, P. A.**, Lauer, T. R., and the Members of the Wide Field/Planetary Camera Investigation Definition Team, "*Planetary Camera Imaging of the Nucleus of M51*", 184th A. A. S. Meeting, Minneapolis, MN, May 1994, abstract in *Bull. Am. Astron. Soc.*, **26**, 890
16. Stapelfeldt, K. R., Burrows, C. J., Krist, J., Trauger, J., Ballester, G., Casertano, S., Clarke, J., Crisp, D., Gallagher, J., Griffiths, R., Hester, J., Hoessel, J., Holtzman, J., Mould, J., **Scowen, P.**, Watson, A., Westphal, J., "*WFPC-2 Observations of the Circumstellar Nebulosity of T Tau and HL Tau*", 184th A. A. S. Meeting, Minneapolis, MN, May 1994, abstract in *Bull. Am. Astron. Soc.*, **26**, 883
15. Hester, J. J., **Scowen, P. A.**, Gallagher, J. S., and the WFPC-2 IDT, "*HST WFPC-2 Observations of the Crab Nebula Filaments*", "*The Analysis of Emission Lines*" in honor of D. E. Osterbrock and M. J. Seaton, STScI Symposium, May 16-18, 1994
14. **Scowen, P. A.**, Hester, J. J., Hunter, D. A., Gallagher, J. S., Matthews, L., and the WF/PC and WFPC-2 IDTs, "*HST WFPC-2 Emission Line Imagery of the 30 Doradus Nebula*", "*The Analysis of Emission Lines*" in honor of D. E. Osterbrock and M. J. Seaton, STScI Symposium, May 16-18, 1994
13. **Scowen, P. A.**, Hunter, D. A., Hester, J. J., Shaya, E., and the WF/PC IDT, "*HST Images of the Gas near the Center of 30 Doradus*", 183rd A. A. S. Meeting, Washington, D. C., January 1994, abstract in *Bull. Am. Astron. Soc.*, **25**, 1309
12. **Scowen, P. A.**, Hester, J. J., Code, A. D., Mackie, G., and the WF/PC IDT, "*HST Imaging of the wind-blown lobe NGC 6165*", Fourth Texas-Mexico Conference on Astrophysics: The Interaction of Stars and Gas, Austin, TX, March 1993
11. Hester, J. J., **Scowen, P. A.**, Lauer, T. R., and the WF/PC IDT, "*Hubble Space Telescope WF/PC Imaging of the Cygnus Loop*", 181st A. A. S. Meeting, Phoenix, AZ, January 1993, abstract in *Bull. Am. Astron. Soc.*, **24**, 1232
10. **Scowen, P. A.**, Dufour, R. J. and Hester, J. J., "*A Study of the H II Region Populations of M101, M51 and NGC 4449*", 181st A. A. S. Meeting, Phoenix, AZ, January 1993, abstract in *Bull. Am. Astron. Soc.*, **24**, 1210
9. **Scowen, P. A**. and Dufour, R. J., "*Intercomparison of the HII Region populations of M101, M51 and NGC 4449*", 179th A. A. S. Meeting, Atlanta, GA, January 1992, abstract in *Bull. Am. Astron. Soc.*, **23**, 1459
8. Dufour, R. J., **Scowen, P. A.**, Davidson, K., Skillman, E. D., Roy, J.-R., Shields, G. A., McCall, M. L., Clayton, D. D. and Wu, C.-C., "*HST WFC/FOC Imagery of the Irregular Galaxy GR8*", 179th A. A. S. Meeting, Atlanta, GA, January 1992, abstract in *Bull. Am. Astron. Soc.*, **23**, 1456
7. Hester, J. J., Dufour, R. J., Parker, R. A. R. and **Scowen, P. A.**, "*An Emission Line Survey of Galactic HII Regions*", 179th A. A. S. Meeting, Atlanta, GA, January 1992, abstract in *Bull. Am. Astron. Soc.*, **23**, 1364
6. **Scowen, P. A.**, Dufour, R. J. and Hester, J. J., "*A comparative study of the HII Regions of M51 and M101*", 178th A. A. S. Meeting, Seattle, WA, May 1991, abstract in *Bull. Am. Astron. Soc.*, **23**, 966
5. **Scowen, P. A.**, "*The HII Regions of the Spiral Galaxy M101*", Third Texas-Mexico Conference on Astrophysics: Plasmas in Astrophysics, Houston, TX, February 1991
4. **Scowen, P. A.**, Dufour, R. J., Hester, J. J. and Parker, R. A., "*Imaging Spectrophotometry of HII Regions in M101*", 175th A. A. S. Meeting, Washington, D. C., January 1990, abstract in *Bull. Am. Astron. Soc.*, **22**, 755
3. Michel, F. C., **Scowen, P. A.**, Dufour, R. J. and Hester, J. J., "*CCD Imaging Polarimetry of the Crab Nebula*", 175th A. A. S. Meeting, Washington, D. C., January 1990, abstract in *Bull. Am. Astron. Soc.*, **21**, 1202
2. Clayton, D. D., Liffman, K. and **Scowen, P. A**., "^{16} *O anomalies in Interstellar Dust Size Fractions*", Twentieth Lunar and Planetary Science Conference, Houston, TX, March 1989, abstract in *Lunar and Planetary Science XX*, Lunar and Planetary Science Institute
1. Clayton, D. D., **Scowen, P. A.** and Liffman, K., "*Age Structure of Refractory Interstellar Dust and Isotopic Consequences*", Second Texas-Mexico Conference on Astrophysics: Ionized Nebulae and Star Forming Regions, Mexico City, February 1989, abstract in *Revista Mexicana Astron. Astrof.*, **18**, 185