
Curriculum Vitae

Stephan Robert McCandliss, Research Professor – JHU

Director, Center for Astrophysical Sciences

stephan@pha.jhu.edu

Johns Hopkins University	tel: 410-516-5272
Department of Physics & Astronomy	fax: 410-516-8260
Baltimore, Maryland 21218	http://www.pha.jhu.edu/~stephan

Familial History

1955/09/07	Born	Salinas California
1989/01/01	Married	Ann Marie McCandliss (nee Selander)
1989/11/10	Daughter	Rachel Pearl McDiehl (nee McCandliss)
1992/05/26	Son	Ian Frederick McCandliss

Education

1988	Ph.D. Astrophysics	University of Colorado, Boulder
1981	B.S. Physics	University of Washington, Seattle
1981	B.S. Astronomy	University of Washington, Seattle

Work History

2015 – present	Director, Center for Astrophysical Sciences	Johns Hopkins University
2010 – present	Research Professor	Johns Hopkins University
2002 – 2010	Principal Research Scientist	Johns Hopkins University
1994 – 2002	Research Scientist	Johns Hopkins University
1988 – 1994	Associate Research Scientist	Johns Hopkins University
1981 – 1988	Ph.D. Candidate	University of Colorado, Boulder
1977 – 1981	Reader and Lab Assistant	University of Washington, Seattle

Primary Research Interests

The ionization history of the universe.
Spectral signatures of dust, molecules and atoms in astrophysical environments.
Rapid-response space science missions and enabling low-cost access to space.
Space-based astronomical instrumentation.

Service

2017 – present	JHU Representative to USRA's Council of Institutions
2016 – present	LUMOS Spectrograph Definition Team for LUVVOIR and Technology Assessment Team
2016 – present	Sounding Rocket Working Group
2016, 2017	NASA Nancy Grace Roman Technology Fellowship Review Panel
2013	HST Cycle 21 Proposal Review Panel
2011	NASA APRA/SAT UV/Vis Review Panel Chair
2011	NSF Astronomy Advanced Technology and Instrumentation Opt/IR Panel
2008 – present	Astrophysics Sounding Rocket Assessment Team
2008, 2009	NASA APRA UV/Vis Review Panels
2008, 2010	HST Cycle 17, 18 Proposal Reviews
2008	Spitzer Cycle 5 Proposal Review
1999 – 2003	Sounding Rocket Working Group

Memberships

1986 – present	American Astronomical Society
1994 – 2003	Optical Society of America

January 2018

Awards

1998	Comet Hale-Bopp Sounding Rocket Campaign
1996	1995 Woomera Sounding Rocket Campaign

Invited talks

2017 STScI Spring Symposium	Maximizing science return for COS LUV modes
2017 NASA/ UV-VIS PI Review	Scattered light characterization of Next Generation FORTIS
2014 SOFIA Science Colloquium	Entrepreneurial space astrophysics enabled by new technologies – Nurturing the space-adept in a sounding rocket crucible

Responsibilities – Director of Center for Astrophysical Sciences

Charged with promoting the research of some 75 PhD astronomers (34 professors and 41 research scientist and post-docs), nurturing and providing organization support for large scientific projects, leading the strategic planning in astrophysics, fostering cooperation with other local astrophysics institutions and providing a structured career path for members of the CAS research staff.

Responsibilities – Sounding Rocket PI

- Develop science directions and goals, instrumentation innovations, data analysis techniques and work schedules for the sounding rocket group.
- Oversee the work of students, administrative assistants, technicians, engineers, and scientists working in small-team laboratory and field environments.
- Conduct reviews with experiment, launch and service providers, to ensure compliance with mission success criteria.
- Oversee calibration, integration, testing, performance verification and launch preparations.
- Make launch go/nogo decision.
- Develop follow-up observing projects to expand upon previous results.
- Author scientific papers, proposals, budgets, statements of work, and grant reports.
- Serve as a panelist on NASA science peer review and planning committees.

Supervised Ph. D. Candidates and Graduates

2010 – present	Mr. Keith Redwine	Lyman Alpha Escape from Starforming Galaxies
2007 – 2013	Dr. Brian T. Fleming	The Search for Lyman Alpha Escape from Nearby Starforming Galaxies
2003 – 2009	Dr. Roxana Lupu (BLAST/UPenn, SETI)	Molecular and Dust Scattering Processes in Astrophysical Environments
1999 – 2005	Professor Kevin France (COS/CU)	Far-Ultraviolet Molecular Hydrogen Fluorescence in Photodissociation Regions
1996 – 2001	Dr. Eric Burgh (SALT/SAL, COS/CU)	Far-Ultraviolet Studies of Dust Extinction and Scattering
1991 – 1998	Dr. Jason McPhate	Carbon Monoxide in Comets

January 2018

	(SSL,Berkeley)	
1990 – 1997	Dr. Patrick Morrissey (GSFC, GALEX/Cal Tech)	Space Ultraviolet Spectroscopy and Imaging of Jupiter
1988 – 1995	Dr. Melaquias Martinez (FUSE/JHU, private sector)	Lyα and Lyβ in the Night Airglow Using the Faint-Object Telescope and the Hopkins Ultraviolet Telescope
1988 – 1992	Dr. David Sahnou (FUSE/JHU, COS/STScI)	Ultraviolet Spectroscopy of Comet Austin (1989c₁) Using a Two-Dimensional Diode Array Detector

Sounding Rocket Missions

2015	36.312UG	NGC 1365
2013	36.296UG	Comet C/2012 S1 (ISON)
2013	36.268UG	Starforming galaxy M61
2008	36.223UG	Great Nebula in Orion (M42)
2007	36.220UG	Trifid Nebula (M20)
2003	36.208UG	γ Cas, IC 59 and IC 63
2001	36.198UG	Reflection Nebula IC 405
2000	36.186UG	Reflection Nebula NGC 2023
1999	36.136UG	Planetary Nebula NGC 6853 (M27, the Dumbbell)
1997	36.156UG	Comet Hale-Bopp
1996	36.115UG	Jovian aurorae
1995	36.132UG	30 Dor (from Woomera Asutralia)
1994	36.109UG	G191-B2B (reflight)
1992	36.085UG	G191-B2B Far-UV Calibration
1990	36.057UG	Io Torus (reflight)
1989	36.073UG	Comet Austin 1989c ₁
1988	36.045UG	Io Torus around Jupiter

Ground-based Observing Programs

2008 – 2012	APO DIS	Project Balmer
2007	Arecibo	HI Mapping of the PN M27
2006	APO DIS and NIC-FPS	Optical and IR Mapping of M27
1999, 2001, 2009	APO Echelle	M Giants and Symbiotics
1987	KPNO Fiber Optic Echelle	Wolf-Rayet and O-stars
1987	Sommers-Bausch B&L	Wolf-Rayet and O-stars

JHU/GSFC Grant History – Total awards \$21.44 M since 1994

Space Instrumentation Grants

2016 – 2021	NASA/APRA	\$4.40M	PI w/ GSFC CoI	Rocket and Laboratory Experiments in Astrophysics – Validation and Verification of the Next Generation FORTIS
2013 – 2016	NASA/APRA	\$792 K	PI	Target of Opportunity – Far-UV Observations of Comet ISON with FORTIS
2011 – 2015	NASA/APRA	\$3.21M	PI w/ GSFC CoI	Rocket and Laboratory Studies in Astronomy with FORTIS

January 2018

2008 – 2011	NASA/APRA	\$1.62M	PI	Rocket and Laboratory Experiments in Astronomy – Quantifying the Gas-to Dust Ratio and Lyα Escape Fraction with FORTIS
2004 – 2008	NASA/APRA	\$1.83M	PI	Rocket and Laboratory Experiments in Astronomy – FORTIS: Pathfinder to the Lyman Continuum
1996 – 2005	NASA/APRA	\$468K	PI	FUV Windowless Lamps
2015– 2017	NASA/APRA	\$618K	Co-I w/ GSFC	Advanced Microshutters for UV and Visible Astronomy from Space
2008– 2013	NASA/APRA	\$3.36M	Co-I	Rocket and Laboratory Experiments in Astrophysics – ACCESS: Absolute Color Calibration for Standard Stars
2007– 2008	DOE	\$199K	Co-I	Calibration Monitor for Dark Energy Experiments
2000– 2004	NASA/SARA	\$1.73M	Co-I	Rocket and Laboratory Experiments in Astronomy – LIDOS
2000– 2001	NASA/NGST	\$170K	Co-I	Comparative NIR Detector Characterization for NGST
1997– 2000	NASA	\$1.66M	Co-I	Rocket and Laboratory Experiments in Astronomy
1994– 1996	NASA/JPL	\$63.5K	Co-I	UV/Visible CCD Development
2011– 2014	NASA/APRA	\$503K	Co-I GSFC	Next Generation Microshutter Arrays

Space Observation Grants

2016– 2017	HST	\$71K	PI	SDSSCGB-46589.1 -- a Lyman Alpha Blob at Low Redshift?
2014– 2016	HST	\$114K	PI	High Efficiency SNAP Survey for Lyman Alpha Emitters at Low Redshift
2012– 2013	HST	\$53K	PI	COS G140L CENWAV =800, a gapless low astigmatism mode for observations to the Lyman Limit
2008– 2009	HST	\$90K	PI	Searching for Lyα Emission from FUSE Lyman Continuum Candidates
2006– 2008	Spitzer	\$66K	PI	A Comparison of the Infrared and Ultraviolet Properties of Photodissociation Regions
2006– 2008	FUSE	\$31K	PI	Search for Continuum Emission from Bright Non-Zero Redshift Objects in the Sloan/GALEX Merged Catalog
2005– 2008	Spitzer	\$23K	PI	A Mid and Far-Infrared Study of IC 405: PAH and Dust Emission
2004– 2005	FUSE	\$36K	PI	Far-UV H₂ Emission in Planetary Nebulae
2003– 2004	FUSE	\$39K	PI	Searching for Far Ultraviolet Fluorescence of Molecular Hydrogen in NGC 2023
2003– 2005	FUSE	\$30K	PI	Fluorescent Molecular Hydrogen in IC 405 and NGC 7023 – The Role of Environment
2012– 2013	HST	\$25K	Co-I	Do Lyman-alpha photons escape from star-forming galaxies through dust-holes?
2009– 2011	HST	\$18K	Co-I (adm-PI)	EG And: Providing the Missing Link Required for Modelling Red Giant Mass-loss

January 2018

2007– 2009	FUSE	\$9K	Co-I (adm-PI)	Understanding Mass-loss in Cool Giants: The Wind of SY MUS
2005– 2007	FUSE	\$18K	Co-I (adm-PI)	A FUV Survey of Extragalactic Symbiotic Binary Stars
2005– 2006	FUSE	\$12K	Co-I (adm-PI)	Symbiotic Binary Stars: Probing the Winds of Cool Giants
2005– 2006	FUSE	\$22K	Co-I (adm-PI)	Astro-Tomography of Symbiotic Binaries
2002– 2004	HST	\$40K	Co-I (adm-PI)	UV Sounding of the M-Giant Atmosphere in the Symbiotic Binary EG-AND
2001– 2002	FUSE	\$53K	Co-I (adm-PI)	Symbiotic Binaries for Wind Studies
2000– 2001	FUSE	\$41K	Co-I (adm-PI)	Emission and Absorption Line Studies of Symbiotic Binaries: Mass Loss and Shock Diagnostics

Contacts

Internal:

Paul D. Feldman
Dept. of Physics & Astronomy
The Johns Hopkins University
Baltimore, MD 21218-2686
410-516-7339
pdf@pha.jhu.edu

H. Warren Moos
Dept. of Physics & Astronomy
The Johns Hopkins University
Baltimore, MD 21218-2686
410-516-7337
hwm@pha.jhu.edu

Timothy Heckman
Dept. of Physics & Astronomy
The Johns Hopkins University
Baltimore, MD 21218-2686
410-516-7369
heckman@pha.jhu.edu

External:

Rogier A. Windhorst
School of Earth & Space Exploration
Arizona State University Box 871404
Tempe, AZ 85287-1404
480-965-7143
Rogier.Windhorst@asu.edu

Robert F. Pfaff, Jr.
NASA/GSFC
Mail Code 696
Greenbelt, MD 20771
301-286-6328
rob.pfaff@gsfc.nasa.gov

Oswald H. W. Siegmund
Space Sciences Laboratory
University of California
Berkeley, CA 94720
510-642-0895
ossy@ssl.berkeley.edu

Webster Cash
Dept. of Astrophysical and Planetary Sciences
University of Colorado, Campus Box 389
Boulder CO 80308-0389
303-492-4056
webster.cash@colorado.edu

Kenneth Nordsieck

Publications

Refereed Journals

McCandliss, S. R. and J. M. O'Meara **2017**, Flux Sensitivity Requirements for the Detection of Lyman Continuum Radiation Drop-ins from Star-forming Galaxies below Redshifts of 3, *ApJ* 845, 111

Nikzad, S., A. D. Jewell, M. E. Hoenk, T. J. Jones, J. Hennessy, T. M. Goodsall, A. G. Carver, C. Shapiro, S. R. Cheng, E. T. Hamden, G. Kyne, D. C. Martin, D. Schiminovich, P. Scowen, K. France, **S. McCandliss**, and R. E. Lupu **2017**, High-efficiency uv/optical/nir detectors for large aperture telescopes and uv explorer missions: development of and field observations with delta-doped arrays, *JATIS* 3, 3 – 24

Scowen, P. A., T. Tripp, M. Beasley, D. Ardila, B. Andersson, J. Máiz Apellániz, M. Barstow, L. Bianchi, D. Calzetti, M. Clampin, C. J. Evans, K. France, M. García García, A. Gomez de Castro, W. Harris, P. Hartigan, J. C. Howk, J. Hutchings, J. Larruquert, C. F. Lillie, G. Matthews, **S. McCandliss**, R. Polidan, M. R. Perez, M. Rafelski, I. U. Roederer, H. Sana, W. T. Sanders, D. Schiminovich, H. Thronson, J. Tumlinson, J. Vallerga, and A. Wofford **2017**, Finding the UV-Visible Path Forward: Proceedings of the Community Workshop to Plan the Future of UV/Visible Space Astrophysics, *PASP*, 129, 076001

McCandliss, S. R., P. D. Feldman, H. Weaver, B. Fleming, K. Redwine, M. J. Li, A. Kutyrev, and S. H. Moseley **2016**, Far-Ultraviolet Observations of Comet C/2012 S1 (ISON) from FORTIS, *AJ* 152, 65

Redwine, K., **S. R. McCandliss**, W. Zheng, B. Fleming, S. Osterman, K. France, J. C. Howk, S. F. Anderson, and B. T. Gaensicke **2016**, New Gapless COS G140L Mode Proposed for Low Astigmatism Far-UV Observation, *PASP*, 128, 105006

Lupu, R. E., P. D. Feldman, **S. R. McCandliss**, and D. F. Strobel **2011**, Observations and modeling of H₂ fluorescence with partial frequency redistribution in giant planet atmospheres, *ApJ* 732, 37.

Feldman, P. D., **S. R. McCandliss**, J. P. Morgenthaler, C. M. Lisse, H. A. Weaver, and M. F. A'Hearn **2010**, Galaxy Evolution Explorer Observations of CS and OH Emission in Comet 9P/Tempel 1 During Deep Impact, *ApJ* 711, 1051-1056.

Fleming, B., K. France, R. E. Lupu, and **S. R. McCandliss** **2010**, Spitzer Mapping of Polycyclic Aromatic Hydrocarbon and H₂ Features in Photodissociation Regions, *ApJ* 725, 159-172.

McCandliss, S. R., K. France, S. Osterman, J. C. Green, J. B. McPhate, and E. Wilkinson **2010**, Far-Ultraviolet Sensitivity of the Cosmic Origins Spectrograph, *ApJ* 709, L183-L187.

Feldman, P. D., R. E. Lupu, **S. R. McCandliss**, and H. A. Weaver **2009**, The Far-Ultraviolet Spectral

January 2018

Signatures of Formaldehyde and Carbon Dioxide in Comets, *ApJ* 699, 1104-1112

Crowley, C., B. R. Espey, and **S. R. McCandliss 2008**, EG And: FUSE and HST/STIS Monitoring of an Eclipsing Symbiotic Binary, *ApJ* 675, 711-722

Burgh, E. B., K. France, and **S. R. McCandliss 2007**, Direct Measurement of the Ratio of Carbon Monoxide to Molecular Hydrogen in the Diffuse Interstellar Medium, *ApJ* 658, 446-454

France, K., **S. R. McCandliss**, and R. E. Lupu **2007**, A Cometary Bow Shock and Mid-Infrared Emission Variations Revealed in Spitzer Observations of HD 34078 and IC 405, *ApJ* 655, 920-939

Feldman, P. D., **S. R. McCandliss**, M. Route, H. A. Weaver, M. F. A'Hearn, M. J. S. Belton, and K. J. Meech **2007**, Hubble Space Telescope observations of Comet 9P/Tempel 1 during the Deep Impact encounter, *Icar* 191, 276-385

McCandliss, S. R. and J. Kruk **2007**, Metal Absorption Profiles from the Central Star of the Planetary Nebula M27 (NGC 6853, PN G060.8-03.6, the Dumbbell): Photospheric and Nebular Line Identifications, *ApJS* 170, 126-151

McCandliss, S. R., K. France, R. E. Lupu, E. B. Burgh, K. Sembach, J. Kruk, B.-G. Andersson, and P. D. Feldman **2007**, Molecular and Atomic Excitation Stratification in the Outflow of the Planetary Nebula M27, *ApJ* 659, 1291-1316

Feldman, P. D., R. E. Lupu, **S. R. McCandliss**, H. A. Weaver, M. F. A'Hearn, M. J. S. Belton, and K. J. Meech **2006**, Carbon Monoxide in Comet 9P/Tempel 1 before and after the Deep Impact Encounter, *ApJ* 647, L61-L64

Lupu, R. E., K. France, and **S. R. McCandliss 2006**, Discovery of Ly α pumped Molecular Hydrogen Emission in the Planetary Nebulae NGC 6853 and NGC 3132, *ApJ* 644, 981-989

Sokoloski, J. L., S. J. Kenyon, B. R. Espey, C. D. Keyes, **S. R. McCandliss**, A. K. H. Kong, J. P. Aufdenberg, A. V. Filippenko, W. Li, C. Brocksopp, C. R. Kaiser, P. A. Charles, M. P. Rupen, and R. P. S. Stone **2006**, A "Combination Nova" Outburst in Z Andromedae: Nuclear Shell Burning Triggered by a Disk Instability, *ApJ* 636, 1002-1019

France, K. and **S. R. McCandliss 2005**, Molecular Hydrogen in Orion as Observed by the Far Ultraviolet Spectroscopic Explorer, *ApJ* 629, L97-L100

France, K., B.-G. Andersson, **S. R. McCandliss**, and P. D. Feldman **2005**, Fluorescent Molecular Hydrogen Emission in IC 63: FUSE, Hopkins Ultraviolet Telescope, and Rocket Observations, *ApJ* 628, 750-757

Glazebrook, K., I. Baldry, W. Moos, J. Kruk, and **S. R. McCandliss 2005**, Monster redshift surveys through dispersive slitless imaging: The Baryon Oscillation Probe [review article], *NewAR* 49, 374-378

France, K., **S. R. McCandliss**, E. B. Burgh, and P. D. Feldman **2004**, Rocket and Far Ultraviolet Spectroscopic Explorer Observations of IC 405: Differential Extinction and Fluorescent Molecular Hydrogen, *ApJ* 616, 257-265

Knauth, D. C., B.-G. Andersson, **S. R. McCandliss**, and H. Warren Moos **2004**, The interstellar N2

January 2018

abundance towards HD 124314 from far-ultraviolet observations, *Nature* 429, 636–638

Knauth, D. C., B.-G. Andersson, **S. R. McCandliss**, and H. W. Moos **2003**, Potential Variations in the Interstellar N I Abundance, *ApJ* 596, L51–L54

McCandliss, S. R. 2003, Molecular Hydrogen Optical Depth Templates for FUSE Data Analysis, *PASP* 115, 651–661

Burgh, E. B., **S. R. McCandliss**, and P. D. Feldman **2002**, Rocket Observations of Far- Ultraviolet Dust Scattering in NGC 2023, *ApJ* 575, 240–249

McCandliss, S. R., E. B. Burgh, and P. D. Feldman **2001**, Ultraviolet groove efficiency of a holographic grating: implications for a dual-order spectrograph, *Appl. Opt.* 40, 2626–2642

Burgh, E. B., **S. R. McCandliss**, B.-G. Andersson, and P. D. Feldman **2000**, On the Correlation between CO Absorption and Far-Ultraviolet Nonlinear Extinction toward Galactic OB Stars, *ApJ* 541, 250–256

McPhate, J. B., P. D. Feldman, **S. R. McCandliss**, and E. B. Burgh **1999**, Rocket-borne Long-Slit Ultraviolet Spectroscopy of Comet Hale-Bopp, *ApJ* 521, 920–927

McCandliss, S. R., J. B. McPhate, and P. D. Feldman **1998**, Narcissistic ghosts in Rowland-mounted, concave gratings with $b = 0$: a cautionary note, *Appl. Opt.* 37, 5070–5074

Massa, D., A. W. Fullerton, J. S. Nichols, S. P. Owocki, R. K. Prinja, N. St-Louis, A. J. Willis, B. Altner, C. T. Bolton, J. P. Cassinelli, D. Cohen, R. G. Cooper, A. Feldmeier, K. G. Gayley, T. Harries, S. R. Heap, R. N. Henriksen, I. D. Howarth, I. Hubeny, E. Kambe, L. Kaper, G. Koenigsberger, S. Marchenko, **S. R. McCandliss**, A. F. J. Moffat, T. Nugis, J. Puls, C. Robert, R. E. Schulte-Ladbeck, L. J. Smith, M. A. Smith, W. L. Waldron, and R. L. White **1995**, The IUE MEGA Campaign: Wind Variability and Rotation in Early-Type Stars, *ApJ* 452, L53

Morrissey, P. F., **S. R. McCandliss**, and P. D. Feldman **1995**, Vacuum-ultraviolet quantum efficiency of a thinned, backside-illuminated charge-coupled device. *ApOpt* 34, 4640–4650

Buss, R. H., M. Allen, **S. McCandliss**, J. Kruk, J. Liu, and T. Brown **1994**, Evolution of macromolecular dust: Far-ultraviolet spectral dust extinction and gas absorption of stellar light as measured with the Hopkins Ultraviolet Telescope, *ApJ* 430, 630–649

McCandliss, S. R., B. Bohannon, C. Robert, and A. F. J. Moffat **1994**, Erratum: The 2.27 day period of WR-134 (HD 191765), *Ap&SS* 221, 155–167

Morrissey, P. F., **S. R. McCandliss**, P. D. Feldman, and S. D. Friedman **1994**, Vacuum-ultraviolet quantum efficiency of a phosphor-coated charge-coupled device, *ApOpt* 33, 2534–2538

Sahnou, D. J., P. D. Feldman, **S. R. McCandliss**, and E. F. Mackey **1994**, Two-dimensional intensified photodiode array detector for spaceflight use, *RSci* 65, 813–825

McCandliss, S. R., R. H. Buss, W. P. Blair, C. W. Bowers, A. F. Davidsen, P. D. Feldman, and J. W. Kruk **1993**, The Spectrum of EZ Canis Majoris (HD 50896) to the Lyman Limit with the Hopkins Ultraviolet Telescope, *ApJ* 416, 372

January 2018

Sahnou, D. J., P. D. Feldman, **S. R. McCandliss**, and M. E. Martinez **1993**, Long-slit ultraviolet spectroscopy of Comet Austin (1990 V), *Icar* 101, 71–83

Proceedings & Conferences

France, K., B. Fleming, G. West, **S. R. McCandliss**, M. R. Bolcar, W. Harris, L. Moustakas, J. M. O'Meara, I. Pascucci, J. Rigby, D. Schiminovich, and J. Tumlinson **2017**, The luvor ultraviolet multi-object spectrograph (LUMOS): instrument definition and design. *SPIE* 10397– 22

Heap, S., W. Danchi, J. Burge, K. Dodson, A. Hull, S. Kendrick, **S. McCandliss**, G. Mehle, L. Purves, D. Sheikh, M. Valente, and R. A. Woodruff **2017**, Cetus: an innovative uv probe-class mission concept. *SPIE* 10398 – 11

Kaiser, M. E., M. J. Morris, L. N. Aldoroty, R. Pelton, R. Kurucz, G. O. Peacock, J. Hansen, **S. R. McCandliss**, B. J. Rauscher, R. A. Kimble, J. W. Kruk, E. L. Wright, J. D. Orndorff, P. D. Feldman, H. W. Moos, A. G. Riess, J. P. Gardner, R. Bohlin, S. E. Deustua, W. V. Dixon, D. J. Sahnou, and S. Perlmutter **2017**, ACCESS: integration and pre-flight performance, *SPIE* 10398 – 15

Scowen, P. A., K. France, J. Tumlinson, **S. McCandliss**, T. Tripp, and J. C. Howk **2017**, Recent developments in next-generation uv-visible space telescope planning and design, *SPIE* 10398 – 12

McCandliss, S. R., A. Carter, K. Redwine, S. Teste, R. Pelton, J. Hagopian, A. Kuttyrev, M. J. Li, and S. H. Moseley **2017**, Scattered light characterization of fortis, *SPIE* 10397 – 9

Siegmund, O. H. W., C. Ertley, J. V. Vallergera, E. R. Schindhelm, A. Harwit, B. T. Fleming, K. C. France, J. C. Green, **S. R. McCandliss**, and W. M. Harris **2017**, Microchannel plate detector technology potential for luvor and habex, *SPIE* 10397 – 14

Weaver, H. A., M. F. A'Hearn, D. Bodewits, M. R. Combi, N. Dello Russo, P. D. Feldman, and **S. R. McCandliss** **2014**, Ultraviolet Spectroscopy of Comet ISON (2012 S1) with the Hubble Space Telescope *LPI* 45, 2903

Weaver, H., M. A'Hearn, P. Feldman, D. Bodewits, M. Combi, N. Dello Russo, and **S. McCandliss** **2014**, Ultraviolet spectroscopy of comet ISON (2012 S1) *AMC* 583

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Kaiser, M. E., M. J. Morris, G. O. Peacock, **S. R. McCandliss**, B. J. Rauscher, R. A. Kimble, J. W. Kruk, R. Pelton, E. L. Wright, D. B. Mott, Y. Wen, P. D. Feldman, H. W. Moos, A. G. Riess, J. P. Gardner, D. J. Benford, B. E. Woodgate, R. Bohlin, S. E. Deustua, W. V. Dixon, D. J. Sahnou, R. Kurucz, M. Lampton, and S. Perlmutter **2014**, ACCESS: status and pre-flight performance *SPIE* 9143, 91434Y-10

January 2018

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Fleming, B. T., **S. R. McCandliss**, K. Redwine, M. E. Kaiser, J. Kruk, P. D. Feldman, A. S. Kuttyrev, M. J. Li, S. H. Moseley, O. Siegmund, J. Vallergera, and A. Martin **2013**, Calibration and flight qualification of FORTIS SPIE 8859, 88590Q-12

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