

CURRICULUM VITAE

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Educational Background

- 2006 Ph.D. in Optics, University of Central Florida
Dissertation: *Predicting Surface Scatter Using a Linear Systems Formulation of Non-paraxial Scalar Diffraction Theory*, Advisor: James E. Harvey
- 2000 M.S. in Optics, University of Central Florida
- 1995 B.S. in Photonics, State University of New York Institute of Technology at Utica/Rome
- 1991 A.S. in Photonics, Mohawk Valley Community College

Areas of Technical Expertise and Research Interests: Project management, data systems, optical system design, space-based optical systems, image analysis, performance modeling for optical systems, surface scatter phenomena, numerical modeling and simulation, remote sensing, thermosphere-ionosphere data analysis and modeling.

Employment History:

- 2010- : Associate Scientist, Florida Space Institute, University of Central Florida
- 2006-2010: Postdoctoral Associate, Florida Space Institute, University of Central Florida
- 1997-2006: Graduate Research Assistant, CREOL, University of Central Florida

Refereed Journal Articles:

J. Correira, J. S. Evans, J. D. Lumpe, **A. Krywonos**, R. Daniell, V. Veibell, W. E. McClintock, R. W. Eastes (2021), Thermospheric Composition and Solar EUV Flux From the Global-Scale Observations of the Limb and Disk (GOLD) Mission, *J. Geophys. Res. Space Physics*, 126, e2021JA029517, [doi: 10.1029/2021JA029517](https://doi.org/10.1029/2021JA029517)

Evans, J. S., J. Lumpe, J. Correira, V. Viebell, **A. Krywonos**, S. C. Solomon, and R. W. Eastes (2020), Neutral exospheric temperatures from the Global-scale Observations of the Limb and Disk (GOLD) mission, *J. Geophys. Res. Space Physics*, 125, e2020JA027814, [doi:10.1029/2020JA027814](https://doi.org/10.1029/2020JA027814)

Eastes, R. W., W. E. McClintock, A. G. Burns, D. N. Anderson, L. Andersson, S. Aryal, S. A. Budzien, X. Cai, M. V. Codrescu, J. T. Correira, R. E. Daniell, K. F. Dymond, S. L. England, F. G. Eparvier, J. S. Evans, H. Foroosh, Q. Gan, K. R. Greer, D. K. Karan, **A. Krywonos**, F. I. Laskar, J. D. Lumpe, C. R. Martinis, J. B. McPhate, J. Oberheide, O. H. Siegmund, S. C. Solomon, V. Veibel, T. N. Woods. (2020), Initial Observations by the Global-scale Observations of the Limb and Disk (GOLD) mission, *J. Geophys. Res. Space Physics*, 125, [doi:10.1029/2020JA027823](https://doi.org/10.1029/2020JA027823)

McClintock, W. E., R. W. Eastes, A. C. Hoskins, O. H.W. Siegmund, J. B. McPhate, **A. Krywonos**, S. C. Solomon, and A. G. Burns (2020), Global-scale Measurements of the Limb and Disk (GOLD) Mission Implementation: 1. Instrument Design and Early Flight Performance *J. Geophys. Res. Space Physics*, 125, e2020JA027797, [doi:10.1029/2020JA027797](https://doi.org/10.1029/2020JA027797)

McClintock, W. E., R. W. Eastes, S. Beland, K. B. Bryant, A. G. Burns, J. Correia, R. E. Daniell, J. S. Evans, C. S. Harper, D. K. Karan, **A. Krywonos**, J. D. Lumpe, T. M. Plummer, S. C. Solomon, B. A. Vanier, V. Veibel (2020), Global-scale Measurements of the Limb and Disk (GOLD) Mission Implementation: 2. Observations, Data Pipeline and Level 1 Data Products, *J. Geophys. Res. Space Physics*, 125, e2020JA027809, [doi:10.1029/2020JA027809](https://doi.org/10.1029/2020JA027809)

Eastes, R.W., McClintock, W.E., Burns, A.G., Anderson D.N., Andersson, L., Codrescu, M., Correia, J.T., Daniell, R.E., England, S.L., Evans, J.S., Harvey, J., **Krywonos, A.**, Lumpe, J.D., Richmond, A.D., Rusch, D.W., Siegmund, O., Solomon, S.C., Strickland, D.J., Woods, T.N., Aksnes, A., Budzien, S.A., Dymond, K.F., Eparvier, F.G., Martinis, C.R., Oberheide, J. (2017), “The Global-Scale Observations of the Limb and Disk (GOLD) Mission”, *Space Sci Rev*, 212, [doi:10.1007/s11214-017-0392-2](https://doi.org/10.1007/s11214-017-0392-2)

Krywonos, A., D. J. Murray, R. W. Eastes, A. Aksnes, S. A. Budzien, and R. E. Daniell (2012), Remote sensing of neutral temperatures in the Earth’s thermosphere using the Lyman-Birge-Hopfield Bands of N₂: Comparisons with satellite drag data, *J. Geophys. Res.*, 117, A09311, [doi:10.1029/2011JA017226](https://doi.org/10.1029/2011JA017226)

Eastes, R., D. J. Murray, A. Aksnes, S. A. Budzien, R. E. Daniell, and **A. Krywonos** (2011), Modeled and Observed N₂ Lyman-Birge-Hopfield Band Emissions: A Comparison, *J. Geophys. Res.*, 116, A12308, doi.org/10.1029/2010JA016417

Krywonos, A., J. E. Harvey and N. Choi (2011), Linear systems formulation of scattering theory for rough surfaces with arbitrary incident and scattering angles, *J. Opt. Soc. Am. A*, 28, 1121-1138

Harvey, J.E., N. Choi, **A. Krywonos**, G. Peterson, and M. Bruner (2010), Image degradation due to scattering effects in two-mirror telescopes, *Opt. Eng.*, 49, 063202

R. W. Eastes, W. E. McClintock, M. V. Codrescu, A. Aksnes, D. N. Anderson, L. Andersson, D. N. Baker, A. G. Burns, S. A. Budzien, R. E. Daniell, K. F. Dymond, F. G. Eparvier, J. E. Harvey, T. J. Immel, **A. Krywonos**, M. R. Lankton, J. D. Lumpe, G. W. Prolss, A. D. Richmond, D. W. Rusch, O. H. Siegmund, S. C. Solomon, D. J. Strickland, and T. N. Woods (2008), Refereed Research Monograph entitled “Global-Scale Observations of the Limb and Disk (GOLD): New Observing Capabilities for the Ionosphere-Thermosphere”, in *Midlatitude Ionospheric Dynamics and Disturbances*; Editors: P. M. Kintner, A. J. Coster, T. Fuller-Rowell, A. J. Mannucci, M. Mendillo, and R. Heelis; Geophysical Monograph Series, Vol 181, ISBN 978-0-87590-446-7

Harvey, J. E., **A. Krywonos**, C. L. Vernold (2007), Modified Beckmann-Kirchhoff scattering model for rough surfaces with large incident and scattering angles, *Opt. Eng.*, 46, 078002

Krywonos, A., J.E. Harvey, R. E. Daniell, R. W. Eastes, and G. L. Peterson (2006), Scanless ultraviolet remote sensor for limb profile measurements from low earth orbit, *Opt. Eng.*, 45, 106201, 1-9

Harvey, J. E., **A. Krywonos**, D. Bogunovic (2006), Non-paraxial scalar treatment of sinusoidal phase gratings, *J. Opt. Soc. Am. A*, 23, 858-865

Harvey, J. E., M. Atanassova, **A. Krywonos** (2006), Balancing detector effects with wide-field aberrations in the design of grazing incidence x-ray telescopes, *Opt. Eng.*, 45, 1-10

Harvey, J. E. and **A. Krywonos** (2003), Axial irradiance distribution throughout the whole space behind an annular aperture: reply to comments, *Appl. Opt.* 42, 3792-3794

Harvey, J. E., D. Bogunovic, and **A. Krywonos** (2003), Aberrations of diffracted wave fields: distortion, *Applied Optics*, 42, 1167-1174

Harvey, J. E., **A. Krywonos** (2002), Axial irradiance throughout the whole space behind an annular aperture, *Applied Optics*, 41, 3790-3795

Harvey, J.E., **A. Krywonos**, and D. Bogunovic (2002), A tolerance on defocus precisely locates the far field (Exactly where is that far field anyway?)”, *Appl. Opt.* 41, 2586-2588

Harvey, J.E., **A. Krywonos**, P. L. Thompson, and T. T. Saha (2001), Grazing incidence hyperboloid-hyperboloid designs for wide-field x-ray imaging applications, *Applied Optics*, 40, 136-144

Harvey, J.E., C. L. Vernold, **A. Krywonos**, and P. L. Thompson (2000), Diffracted Radiance: A fundamental quantity in non-paraxial scalar diffraction theory: errata”, *Appl. Opt.* 39, 6374-6375

Harvey, J.E., C. L. Vernold, **A. Krywonos**, and P. L. Thompson (1999), Diffracted Radiance: A fundamental quantity in non-paraxial scalar diffraction theory, *Appl. Opt.* 38, 6469-6481

Book Chapters

James E. Harvey, **Andrey Krywonos**, and Cynthia L. Vernold, “A Modified Beckmann–Kirchhoff Surface Scatter Model” in *Understanding Surface Scatter: A Linear Systems Formulation*, by James E. Harvey, SPIE Press, July 31, 2019

Andrey Krywonos, James E. Harvey, and Narak Choi, “The Generalized Harvey–Shack (GHS) Surface Scatter Theory” in *Understanding Surface Scatter: A Linear Systems Formulation*, by James E. Harvey, SPIE Press, July 31, 2019

Conference Proceedings and Abstracts

J. S. Evans, R. Eastes, A. Burns, M. Codrescu, J. Correira, R. Daniell, S. England, **A. Krywonos**, J. Lumpe, B. McClintock, S. Solomon (2018), “Global-scale Observations of the Limb and Disk (GOLD): Overview of Science Algorithms”, Abstract 208.051 presented at 2018 Triennial Earth-Sun Summit (TESS), Leesburg, VA May 20-24

John Correira, Richard W. Eastes, Alan G. Burns, Mihail Codrescu, Rob E. Daniell, Scott L. England, J. Scott Evans, **Andrey Krywonos**, Jerry D Lumpe, William E. McClintock, Stanley C. Solomon (2018), “Global-scale Observations of the Limb and Disk (GOLD): Overview of Science Data Products”, Abstract 208.052 presented at 2018 Triennial Earth-Sun Summit (TESS), Leesburg, VA May 20-24

William E McClintock, Richard Eastes, Laila Andersson, Alan Geoffrey Burns, Mihail Codrescu, Robert Edward Daniell, Scott England, J. Scott Evans, Katelynn Greer, **Andrey Krywonos**, Jerry D Lumpe, Carlos R. Martinis, Jens Oberheide, Arthur D Richmond, David W Rusch, Oswald Siegmund and Stanley C Solomon (2018), “Global-scale Observations of the Limb and Disk (GOLD): First Light Observations”, Abstract SA11A-04 presented at 2018 Fall Meeting, AGU, Washington, D.C., 10-14 Dec

John Correira, J. Scott Evans, Jerry D Lumpe, Mihail Codrescu, Victoir Veibell, **Andrey Krywonos**, Bill McClintock, Richard Eastes and GOLD Science Team (2018), “Global-scale Observations of the Limb and Disk (GOLD): Overview of ON2 and QEUUV Science Data Products”, Abstract SA21A-3169 presented at 2018 Fall Meeting, AGU, Washington, D.C., 10-14 Dec

Jerry D Lumpe, J. Scott Evans, John Correira, Alan Geoffrey Burns, William E McClintock, **Andrey Krywonos**, Richard Eastes and GOLD team (2018), “Initial Measurements of Thermospheric O₂ Density Profiles from GOLD”, Abstract SA21A-3170 presented at 2018 Fall Meeting, AGU, Washington, D.C., 10-14 Dec

Victoir Veibell, J. Scott Evans, Jerry D Lumpe, John Correira, Richard Eastes, Alan Geoffrey Burns, Mihail Codrescu, **Andrey Krywonos**, Bill McClintock, Stanley C Solomon, Jay Richard Cummings and GOLD Science Team (2018), “Global-scale Observations of the Limb and Disk (GOLD): Overview of Daytime Exospheric Temperature Science Data Product”, Abstract SA21A-3171 presented at 2018 Fall Meeting, AGU, Washington, D.C., 10-14 Dec

J. Scott Evans, Richard Eastes, Jerry D Lumpe, John Correira, Alan Geoffrey Burns, Bill McClintock, **Andrey Krywonos**, Stanley C Solomon, Victoir Veibell and GOLD Science Team (2018), “Global-scale Observations of the Limb and Disk (GOLD): Overview of Daytime Neutral Temperature Science Data Product, Abstract SA21A-3172 presented at 2018 Fall Meeting, AGU, Washington, D.C., 10-14 Dec

William McClintock, Richard Eastes, David Anderson, Laila Andersson, Alan Burns, Mihail Codrescu, Robert Daniell, Scott England, Francis Eparvier, J. Scott Evans, **Andrey Krywonos**, Jerry Lumpe, Arthur Richmond, David Rusch, Oswald Siegmund, Stanley Solomon, Thomas Woods, “Global-scale Observations of the Limb and Disk (GOLD): Science Implementation”, Abstract SA31A-2561 presented at the 2017 AGU Fall Meeting, New Orleans, LA, 11-15 Dec 2017

William McClintock, Richard Eastes, Laila Andersson, Alan Burns, Mihail Codrescu, Robert Daniell, Scott England, Scott Evans, **Andrey Krywonos**, Jerry Lumpe, David Rusch, Oswald Siegmund, Stanley Solomon, “Global-scale Observations of the Limb and Disk (GOLD): Science Implementation”, Abstract EGU2018-7395 presented at the 2018 EGU General Assembly, Vienna, Austria, 8-13 April 2018

Richard Eastes, William McClintock, David Anderson, Laila Andersson, Alan Burns, Mihail Codrescu, Robert Daniell, Scott England, **Andrey Krywonos**, Jerry Lumpe, Arthur Richmond, David Rusch, Oswald Siegmund, Stanley Solomon, Thomas Woods, Joseph Scott Evans,

“Advancing Low Latitude Aeronomy with the Global-scale Observations of the Limb and Disk (GOLD) Mission”, Abstract SA11A-02 presented at the 2016 Fall Meeting, AGU, San Francisco, Calif., 12-16 Dec

William McClintock, Richard Eastes, David Anderson, Laila Andersson, Alan Burns, Mihail Codrescu, Robert Daniell, Scott England, Francis Eparvier, **Andrey Krywonos**, Jerry Lumpe, Arthur Richmond, David Rusch, Oswald Siegmund, Stanley Solomon, Thomas Woods, “Global-scale Observations of the Limb and Disk (GOLD): Science Implementation”, Abstract SA13A-2092 presented at the 2016 Fall Meeting, AGU, San Francisco, Calif., 12-16 Dec

Richard Eastes, William McClintock, David Anderson, Laila Andersson, Alan Burns, Mihail Codrescu, Robert Daniell, Scott England, **Andrey Krywonos**, Jerry Lumpe, Arthur Richmond, David Rusch, Oswald Siegmund, Stanley Solomon, Douglas Strickland, Thomas Woods, Scott Budzien, Kenneth Dymond, Francis Eparvier, Sarah Jones, Carlos Martinis, Jens Oberheide, Elsayed Talaat, Rory Barrett, James Harvey, “Global-scale Observations of the Limb and Disk (GOLD) Mission – A New Approach to Ultraviolet Remote Sensing of Earth’s Space Environment (Invited)”, Abstract SM53C-01 presented at the 2016 Fall Meeting, AGU, San Francisco, Calif., 12-16 Dec

R. Eastes, W.E. McClintock, D.N. Anderson, A.G. Burns, S. England, S.C. Solomon, S. Jones, E. Talaat, A. Aksnes, L. Andersson, M. Codrescu, R.E. Daniell, J. Harvey, **A. Krywonos**, J. Lumpe, A. Richmond, D.W. Rusch, O. Siegmund, D.J. Strickland, T.N. Woods, S.A. Budzien, K. Dymond, F.G. Eparvier, R.S. Lieberman, C.R. Martinis, J. Oberheide, “Global-scale Observations of the Limb and Disk (GOLD): From Simulations to Observations”, Oral presentation at the American Geophysical Union (AGU) Fall Meeting 2015, San Francisco, CA, SA52A-05

R. Eastes, T. Deaver, **A. Krywonos**, M. Lankton, W. McClintock, R. Pang, “Global-scale Observations of the Limb and Disk (GOLD) Mission: Science from Geostationary Orbit on-board a Commercial Communications Satellite, Oral presentation at the American Geophysical Union (AGU) Fall Meeting 2011, San Francisco, CA, SA23C-05

R. Eastes, M. Codrescu, A. G. Burns, **A. Krywonos**, W. McClintock, A. Aksnes, D. Anderson, L. Andersson, S. Budzien, R. Daniell, K. Dymond, S. England, F. Eparvier, J. Harvey, T. Immel, M. Lankton, C. Martinis, J. Lumpe, A. Richmond, D. Rusch, O. Siegmund, S. Solomon, D. Strickland, and T. Woods, Poster Paper entitled “Observing geomagnetic storm effects in the Earth’s lower thermosphere from geostationary orbit: A new view of thermosphere-ionosphere variability”, Space Weather Workshop 2011, Boulder, CO (Apr 26 - 29, 2011).

J.E. Harvey, N. Choi, and **A. Krywonos**, “Scattering from moderately rough interfaces between two arbitrary media”, Presented at SPIE’s International Symposium on Optics and Photonics, San Diego, CA (Aug 2010), Published in Proc. SPIE **7794V** (September 2010)

Narak Choi, J. E. Harvey and **Andrey Krywonos**, “New Capabilities for Predicting Image Degradation from Optical Surface Metrology Data”, Presented at SPIE’s International Symposium on Optics and Photonics, San Diego, CA (Aug 2010) ; published in Proc. SPIE **7801E** (August 2010)

J. E. Harvey, Narak Choi, **Andrey Krywonos**, and Gary Peterson, “Predicting Image Degradation from Optical Surface Metrology Data”, Presented at OSA’s Topical Meeting on Applied Industrial Optics, Jackson Hole, WY (Jun 2010); Summary published in *Optical Fabrication and Testing*, OSA Technical Digest (CD) (Optical Society of America, 2010), paper OMB2.

Krywonos, A.; Murray, D. J.; Eastes, R.; Budzien, S. A.; Marcos, F. A. Remote Sensing of Neutral Temperatures in Earth’s Thermosphere Using the Lyman-Birge-Hopfield Bands of N₂: Comparisons with Satellite Drag Data, Poster Paper presented at the American Geophysical Union Fall Meeting 2009, abstract #SA31B-1430

J. E. Harvey, Narak Choi, **Andrey Krywonos** and Jesus Marcen, “Calculating BRDFs from Surface PSDs for Moderately Rough Surfaces”, Presented at SPIE’s International Symposium on Optics and Photonics, San Diego, CA (Aug 2009) ; published in Proc. SPIE **7426-42** (August 2009).

R. Eastes, W. McClintock, A. Aksnes, D. Anderson, L. Andersson, A. Burns, S. Budzien, M. Codrescu, R. Daniell, K. Dymond, S. L. England, F. Eparvier, J. Harvey, T. Immel, **A. Krywonos**, M. Lankton, J. Lumpe, A. Richmond, D. Rusch, O. Siegmund, S. Solomon, D. Strickland and T. Woods, “Global-scale Observations of the Limb and Disk (GOLD)”, American Meteorological Society Annual Meeting, Phoenix, AZ (Jan 2009).

R. W. Eastes, D. N. Anderson, W. E. McClintock, A. Aksnes, L. Andersson, A. G. Burns, S. A. Budzien, M. V. Codrescu, R. E. Daniell, K. F. Dymond, S. L. England, F. J. Eparvier, J. E. Harvey, T. J. Immel, **A. Krywonos**, M. R. Lankton, J. D. Lumpe, A. D. Richmond, D. W. Rusch, O. H. Siegmund, S. C. Solomon, D. J. Strickland, T. N. Woods, “Low Latitude Ionosphere Measurements by the Global-scale Observations of the Limb and Disk (GOLD) Mission”, Poster Paper presented in the Section entitled *Solar Wind Control of Planetary Ionospheres During the Declining Phase of the Solar Cycle*, AGU Fall Meeting, San Francisco, CA (15-19 December 2008).

R. Eastes, A. G. Burns (Presenter), W. McClintock, A. Aksnes, D. Anderson, L. Andersson, S. Budzien, M. Codrescu, R. Daniell, S. England, K. Dymond, F. Eparvier, J. Harvey, T. Immel, **A. Krywonos**, M. Lankton, J. Lumpe, A. D. Richmond, D. Rusch, O. Siegmund, S. C. Solomon, D. Strickland, and T. Woods, “Global-Scale Observations of the Limb and Disk: A Key Mission for Understanding Thermosphere-Ionosphere Forcing”, oral presentation in the 7th Thermospheric-Ionospheric-Geospheric (TIGER) Symposium (C12), Section entitled *Space Studies of the Upper Atmospheres of the Earth and Planets including Reference Atmospheres (C)*, 37th COSPAR Scientific Assembly, Montreal Canada (13-20 July 2008).

R. Eastes, A. G. Burns, W. McClintock, A. Aksnes, D. Anderson, L. Andersson, S. Budzien, M. Codrescu, R. Daniell, S. England, K. Dymond, F. Eparvier, J. Harvey, T. Immel, **A. Krywonos**, M. Lankton, J. Lumpe, A. Richmond, D. Rusch, O. Siegmund, S. C. Solomon, D. Strickland, T. Woods, “Global-scale Observations of the Limb and Disk: a Key Mission for Understanding Thermosphere-Ionosphere Forcing”, Poster Paper presented in the Section entitled *Auroral Science With Heliophysics Great Observatory Imagers: Successes, Challenges, and Opportunities*, AGU Joint Assembly 2008, Ft. Lauderdale, FL (May 2008).

M. Codrescu, R. Eastes, W. McClintock, A. Aksnes, D. Anderson, L. Andersson, A Burns, S. Budzien, R. Daniell, K. Dymond, S. England, F. Eparvier, J. Harvey, T. Immel, **A. Krywonos**,

M. Lankton, J. Lumpe, A. Richmond, D. Rusch, O. Siegmund, S. Solomon, D. Strickland, and T. Woods, Poster Paper entitled “Global-scale Observations of the Limb and Disk (GOLD) - New Observing Capabilities for Space Weather Specification and Forecasting”, Space Weather Workshop 2008, Boulder, CO (Apr 28 - May 1, 2008).

R. Eastes, M. Codrescu, W. McClintock, A. Aksnes, D. Anderson, L. Andersson, A. Burns, S. Budzien, R. Daniell, K. Dymond, F. Eparvier, J. Harvey, T. Immel, **A. Krywonos**, M. Lankton, J. Lumpe, G. Prölss, A. Richmond, D. Rusch, O. Siegmund, S. Solomon, D. Strickland and T. Woods, “Global-scale Observations of the Limb and Disk (GOLD)”, AGU Fall Meeting, San Francisco, CA (Dec 2007).

J. E. Harvey, **A. Krywonos**, and J. C. Stover “Unified Scatter Model for Rough Surfaces at Large Incident and Scattered Angles”, **Invited Paper** presented at SPIE’s International Symposium on Optics and Photonics, San Diego, CA, August 2007; published in Proc. SPIE **6672-12** (August 2007).

J. E. Harvey, **A. Krywonos**, M. Atanassova, and P.L. Thompson, “The Solar X-ray Imager (SXI) on GOES-13: Design, Analysis, and On-orbit Performance”, presented at SPIE’s International Symposium on Optics and Photonics, San Diego, CA, August 2007; published in Proc. SPIE **6689-11** (August 2007).

J. E. Harvey and **A. Krywonos**, “Improved Characterization of Optical Surfaces from Scattered Light Measurements”, presented at OSA Topical Meeting on Optical Interference Coatings, Tucson, AZ, June 4-7, 2007; Summary published in Conference Proceedings.

R. Eastes, W. McClintock, A. Aksnes, D. Anderson, L. Andersson, A. Burns, S. Budzien, M. Codrescu, R. Daniell, K. Dymond, F. Eparvier, J. Harvey, T. Immel, **A. Krywonos**, M. Lankton, J. Lumpe, G. Prölss, A. Richmond, D. Rusch, S. Solomon, D. Strickland and T. Woods, “Global-scale Observations of the Limb and Disk (GOLD)”, AGU Joint Assembly, SA33A12, Acapulco, Mexico (May 2007).

D. Rusch, A. Aksnes, S. Budzien, R. Eastes, D. Anderson, L. Andersson, A. Burns, M. Codrescu, R. Daniell, K. Dymond, F. Eparvier, J. Harvey, T. Immel, **A. Krywonos**, W. McClintock, M. Lankton, J. Lumpe, G. Prölss, A. Richmond, S. Solomon, D. Strickland and T. Woods, “Global-scale Observations of the Limb and Disk (GOLD): Temperature Measurements”, AGU Joint Assembly, SA33A08, Acapulco, Mexico (May 2007).

J. E. Harvey and **A. Krywonos**, “Closing the Loop between Optical Fabrication and Performance: Recent Advances in Modeling Surface Scatter Effects”, presented at SPIE’s Optifab 2007, Rochester, NY, May 14-17, 2007; Summary published in Conference Proceedings.

R. Eastes, M. Codrescu, W. McClintock, A. Aksnes, D. Anderson, L. Andersson, A. Burns, S. Budzien, R. Daniell, F. Eparvier, J. Harvey, T. Immel, **A. Krywonos**, M. Lankton, J. Lumpe, G. Prölss, A. Richmond, D. Rusch, S. Solomon, D. Strickland and T. Woods, “Global-scale Observations of the Limb and Disk (GOLD)—New Observing Capabilities for Space Weather Specification and Forecasting”, Space Weather Workshop, Boulder, CO (April 2007).

R. Eastes, W. McClintock, A. Aksnes, D. Anderson, L. Andersson, S. Budzien, A. Burns, M. Codrescu, R. Daniell, K. Dymond, F. Eparvier, J. Harvey, T. Immel, **A. Krywonos**, M. Lankton, J. Lumpe, G. Prölss, A. Richmond, D. Rusch, S. Solomon, D. Strickland and T. Woods, “Global-scale Observations of the Limb and Disk (GOLD)”, Paper presented at the Chapman Conference

on Mid-latitude Ionospheric Dynamics and Disturbances, Yosemite National Park, CA (Jan 3, 2007).

W. McClintock, M. Lankton, R. Eastes, A. Aksnes, D. Anderson, L. Andersson, A. Burns, M. Codrescu, R. Daniell, F. Eparvier, J. Harvey, T. Immel, **A. Krywonos**, J. Lumpe, G. Prölss, A. Richmond, D. Rusch, S. Solomon, D. Strickland and T. Woods, “Global-scale Observations of the Limb and Disk (GOLD): Mission Implementation”, Poster Paper presented 2006 Fall AGU Meeting, San Francisco, CA (Dec 2006).

R. Eastes, W. McClintock, A. Aksnes, D. Anderson, L. Andersson, D. Baker, A. Burns, M. Codrescu, R. Daniell, F. Eparvier, J. Harvey, T. Immel, **A. Krywonos**, J. Lumpe, G. Prölss, A. Richmond, D. Rusch, S. Solomon, D. Strickland and T. Woods, “Global-scale Observations of the Limb and Disk (GOLD): Continuous, Global-scale Ultraviolet Observations of Earth”, Poster Paper presented 2006 Fall AGU Meeting, San Francisco, CA (Dec 2006).

R. Eastes, W. McClintock, A. Aksnes, D. Anderson, L. Andersson, A. Burns, M. Codrescu, R. Daniell, F. Eparvier, J. Harvey, T. Immel, **A. Krywonos**, M. Lankton, J. Lumpe, G. Prölss, A. Richmond, D. Rusch, S. Solomon, D. Strickland and T. Woods, “Global-scale Observations of the Limb and Disk (GOLD): Science Objectives”, Poster Paper presented 2006 Fall AGU Meeting, San Francisco, CA (Dec 2006).

A. Krywonos and J. E. Harvey, “Recent Developments in the Analysis of Surface Scatter Phenomena”, presented at SPIE’s International Symposium on Optics and Photonics, San Diego, CA, August 2006; published in Proc. SPIE **6291B-27**, (August 2006).

J. E. Harvey and **A. Krywonos**, “Understanding Diffraction Effects in Novel Systems Containing Nanostructures”, **Invited paper** presented at SPIE’s International Symposium on Optics and Photonics, San Diego, CA, August 2006; published in Proc. SPIE **6286-23**, (August 2006).

J. E. Harvey and **A. Krywonos**, “Radiance: The Natural Quantity for Describing Diffraction and Propagation”, presented at SPIE’s International Symposium on Optics and Photonics, San Diego, CA, August 2006; published in Proc. SPIE **6285-4**, 12 pages (August 2006).

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