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14. ABSTRACT Computational Optical Sensing and Imaging (COSI) Meeting was a four-day conference that encompassed the latest advances in computational imaging research, emphasizing integration of opto-electric measurement and computational processing. Representative topics included compressive sensing, tomographic imaging, light-field sensing, digital holography, SAR, phase retrieval, computational spectroscopy, blind deconvolution and phase diversity, point spread function engineering, and digital/optical super resolution. The meeting exposed attendees to in-depth learning of optical sensing and imaging and their applications from internationally recognized academic							
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UU	UU	UU	UU			19b. TELEPHONE NUMBER 202-416-1458	

Report Title

Final Report: OSA Imaging and Applied Optics Congress COSI Conference

ABSTRACT

Computational Optical Sensing and Imaging (COSI) Meeting was a four-day conference that encompassed the latest advances in computational imaging research, emphasizing integration of opto-electric measurement and computational processing. Representative topics included compressive sensing, tomographic imaging, light-field sensing, digital holography, SAR, phase retrieval, computational spectroscopy, blind deconvolution and phase diversity, point spread function engineering, and digital/optical super resolution. The meeting exposed attendees to in-depth learning of optical sensing and imaging and their applications from internationally recognized academic and industry leaders in the field.

The goal of this Meeting was to present topics that range from theoretical to experimental demonstration and verification of the latest advances in computational imaging research. This meeting covered subject matter in fundamental physics, numerical methods and physical hardware that has led to significant improvements in the fields of imaging and sensing for medical, defense, homeland security, inspection and testing applications.

The Meeting convened 114 attendees, hosted 20 invited speakers and featured 70 contributed presentations, including 27 poster presentations.

Enter List of papers submitted or published that acknowledge ARO support from the start of the project to the date of this printing. List the papers, including journal references, in the following categories:

(a) Papers published in peer-reviewed journals (N/A for none)

<u>Received</u>	<u>Paper</u>
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TOTAL:

Number of Papers published in peer-reviewed journals:

(b) Papers published in non-peer-reviewed journals (N/A for none)

<u>Received</u>	<u>Paper</u>
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TOTAL:

Number of Papers published in non peer-reviewed journals:

(c) Presentations

Number of Presentations: 0.00

Non Peer-Reviewed Conference Proceeding publications (other than abstracts):

Received Paper

TOTAL:

Number of Non Peer-Reviewed Conference Proceeding publications (other than abstracts):

Peer-Reviewed Conference Proceeding publications (other than abstracts):

Received Paper

TOTAL:

Number of Peer-Reviewed Conference Proceeding publications (other than abstracts):

(d) Manuscripts

Received Paper

TOTAL:

Number of Manuscripts:

Books

Received Book

TOTAL:

Received

Book Chapter

TOTAL:

Patents Submitted

Patents Awarded

Awards

Graduate Students

<u>NAME</u>	<u>PERCENT SUPPORTED</u>
FTE Equivalent:	
Total Number:	

Names of Post Doctorates

<u>NAME</u>	<u>PERCENT SUPPORTED</u>
FTE Equivalent:	
Total Number:	

Names of Faculty Supported

<u>NAME</u>	<u>PERCENT SUPPORTED</u>
FTE Equivalent:	
Total Number:	

Names of Under Graduate students supported

<u>NAME</u>	<u>PERCENT SUPPORTED</u>
FTE Equivalent:	
Total Number:	

Student Metrics

This section only applies to graduating undergraduates supported by this agreement in this reporting period

The number of undergraduates funded by this agreement who graduated during this period: 0.00

The number of undergraduates funded by this agreement who graduated during this period with a degree in science, mathematics, engineering, or technology fields:..... 0.00

The number of undergraduates funded by your agreement who graduated during this period and will continue to pursue a graduate or Ph.D. degree in science, mathematics, engineering, or technology fields:..... 0.00

Number of graduating undergraduates who achieved a 3.5 GPA to 4.0 (4.0 max scale):..... 0.00

Number of graduating undergraduates funded by a DoD funded Center of Excellence grant for Education, Research and Engineering:..... 0.00

The number of undergraduates funded by your agreement who graduated during this period and intend to work for the Department of Defense 0.00

The number of undergraduates funded by your agreement who graduated during this period and will receive scholarships or fellowships for further studies in science, mathematics, engineering or technology fields:..... 0.00

Names of Personnel receiving masters degrees

NAME
Total Number:

Names of personnel receiving PHDs

NAME
Total Number:

Names of other research staff

NAME PERCENT SUPPORTED
FTE Equivalent:
Total Number:

Sub Contractors (DD882)

Inventions (DD882)

Scientific Progress

Technology Transfer

2016 OSA Computational Optical Sensing and Imaging (COSI) 2016 Topical Conference

CONFERENCE PROCEEDINGS

Report Submitted to:

U. S. Army Research Office
ATTN: Dr. Liyi Dai
P. O. Box 12211
Research Triangle Park, NC 27709-2211

Submitting Institute:

Optical Society of America
2010 Massachusetts Ave NW
Washington, D.C. 20036
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IRS NO. 53-0259696
Congressional District: District of Columbia

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Project Investigator:	Dr. Thomas Giallorenzi, grants@osa.org , 202-416-1925
Report Type:	Final

FOREWORD

The Optical Society of America received a grant in the amount of \$5,000 from Army Research Office (ARO) for the support of the 2016 OSA Computational Optical Sensing and Imaging (COSI) 2016 Topical Conference, which was held in Heidelberg, Germany on 25-28 July 2016. This support is greatly appreciated.

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Appendix C. List of COSI Committee Members

DISTRIBUTION STATEMENT

DISTRIBUTION A. Approved for public release: distribution unlimited.

ABSTRACT

Computational Optical Sensing and Imaging (COSI) Meeting was a four-day conference that encompassed the latest advances in computational imaging research, emphasizing integration of opto-electric measurement and computational processing. Representative topics included compressive sensing, tomographic imaging, light-field sensing, digital holography, SAR, phase retrieval, computational spectroscopy, blind deconvolution and phase diversity, point spread function engineering, and digital/optical super resolution. The meeting exposed attendees to in-depth learning of optical sensing and imaging and their applications from internationally recognized academic and industry leaders in the field.

The goal of this Meeting was to present topics that range from theoretical to experimental demonstration and verification of the latest advances in computational imaging research. This meeting covered subject matter in fundamental physics, numerical methods and physical hardware that has led to significant improvements in the fields of imaging and sensing for medical, defense, homeland security, inspection and testing applications.

The Meeting convened 114 attendees, hosted 20 invited speakers and featured 70 contributed presentations, including 27 poster presentations.

GOALS AND OBJECTIVES

Major Goals:

1. Showcase the latest advances and identify future trends in the field of computational optical sensing and imaging. To enable this, conference chairs and committee members in consultation with industry leaders create a program that attracts distinguished experts and fosters in-depth exploration of topics, enables open dialog, and facilitates one-on-one interaction.
2. Gain recognition and share discoveries with colleagues, luminaries and industry leaders. Peer-reviewed presentations ensure high-quality presentations on important, timely and emerging topics. Accepted papers are published in OSA Publishing's Digital Library and indexed in Ei Compendex and Scopus.
3. Connect with others, meet with colleagues and thought leaders while making new contacts and forging new collaborative partnerships. The meeting is structured to maximize networking opportunities.
4. Engage with the industry and offer opportunities to meet with exhibitors. Participants can hear about the latest products and services, but more importantly, learn about entrepreneurial opportunities and how scientific innovations translate to the market.

Specific Objectives:

1. To organize a four-day Conference.
2. To convene approximately 100 attendees including faculty, early career professionals, post-docs, students, industrial scientists, and exhibitors.
3. To invite approximately 20 speakers.
4. To provide opportunities, where appropriate, for training and professional development through lectures, networking events, activities for students and young professionals, poster sessions and research sharing.
5. To provide funds for students and young professionals with limited resources to travel and attend the Conference. OSA award grants to students based on a combination of diversity, financial need and quality of the students' work, as well as the award committee's evaluation of the applicant's potential for future success.
6. To accept and publish peer-reviewed papers in OSA Publishing's Digital Library and indexed in Ei Compendex and Scopus.
7. To feature approximately seven exhibits in order to help participants engage with the industry.

ACCOMPLISHMENTS

Computational Optical Sensing and Imaging (COSI) was a four-day conference that exposed attendees to in-depth learning of optical sensing and imaging and their applications from internationally recognized academic and industry leaders in the field. The scope included all aspects of the field and spanned from fundamental science to medical, security, and defense industry applications. COSI meeting encompassed the latest advances in computational imaging research, emphasizing integration of opto-electric measurement and computational processing. Representative topics included compressive sensing, tomographic imaging, light-field sensing, digital holography, SAR, phase retrieval, computational spectroscopy, blind deconvolution and phase diversity, point spread function engineering, and digital/optical super resolution.

COSI consisted of topics that range from theoretical to experimental demonstration and verification of the latest advances in computational imaging research. This meeting covered subject matter in fundamental physics, numerical methods and physical hardware that has led to significant improvements in the fields of imaging and sensing for medical, defense, homeland security, inspection and testing applications. This year, OSA prepared a program of 20 invited speakers and 43 contributed oral presentations, as well as 27 poster presentations. Also, new this year, OSA piloted a new program for COSI poster presenters. The new program brought a multimedia presence to enhance the poster session by allowing presenters to submit 3 minute videos of their research. These videos can be found on the COSI website, osa.org/cosi, and also select submissions were shown at the end of related oral presentations sessions.

The program consisted of plenary and technical sessions, networking events, professional development programs, poster presentations and research sharing. The curriculum structure allowed for student education, networking, and opportunities for students to interact with lecturers to enhance professional development.

Please see Appendix A. for the detailed schedule.

Significant Results

1. 114 individuals attended COSI.
2. 42 students attended the Meeting.
3. COSI hosted 20 invited speakers who presented a variety of topics over the course of four days.
4. There were 70 contributed presentations, including 27 poster presentations.
5. There were 13 participating companies.
6. OSA provided the staffing and support for the planning and execution of the program throughout the whole performance period. Additional funds were sought to help lower the costs to all students and provide travel grants to ensure that deserving students in need of assistance were able to attend.
7. The ARO grant funds were used to cover travel and registration costs for 13 participants from the United States who would have been unable to attend without assistance. A portion of the funds was also used for grant management and processing.
8. There were 21 countries represented.
9. COSI provided diversity in student enrollment, including 17% female students.

ARO Grant Funds

1. Participants Support		\$3,497
Sylvain Gigan	Langevin Institute	\$269
Ivo Ihrke	Institute for Research in Computer Science and Automation	\$269
Ori Katz	Hebrew University of Jerusalem	\$269
Damien Kelly	Technical University of Ilmenau	\$269
Allard Mosk	Universiteit Utrecht	\$269
Dirk Robinson	Terra Bella	\$269
Anne Sentenac	Fresnel Institut	\$269
Marc Guillon	Université Paris Descartes	\$269
Alois Herkommer	Universität Stuttgart	\$269
Manuel Martinez-Corral	Universitat de Valencia	\$269

Demetri Psaltis	École Polytechnique Fédérale de Lausanne	\$269
Kari Pulli	Intel Corporation	\$269
Ariel Schwarz	University of Connecticut	\$269
2. Project Management		\$1,503

Invited Speakers and their Presentations

- Christoph Garbe, Ctr Sci Computing, Univ Heidelberg, Germany, Light Field Imaging for Accurate and Realistic Capture of Complex Objects, Invited
- Sylvain Gigan, Laboratoire Kastler-Brossel, France, Compressive Sensing and Optical Computing Thanks to Multiple Scattering , Invited
- Marc Guillon, CNRS UMR8250 Université Paris Descartes, France, The Use of Saturated Negative Speckles for Imaging Through a Scattering Sample , Invited
- Alois Herkommer, Universität Stuttgart, Germany, Optical Design Tools for Computational Imaging Systems, Invited
- Anna Hilsmann, Fraunhofer Heinrich Hertz Institute , Germany, Towards Image-based Modelling, Editing and Rendering, Invited
- Ivo Ihrke, INRIA, Germany, Advances in Non-Invasive Full-State Fluid Capture , Invited
- Bahram Javidi, University of Connecticut, United States, Automated Disease Identification Using Computational 3D Optical Sensing and Imaging Systems, Invited
- Ori Katz, Hebrew University of Jerusalem, Israel, Imaging with Scattered Light, Invited
- Damien Kelly, Technical University of Ilmenau, Germany, Convergence Properties of Temporal Speckle Measurements, Invited
- Manuel Martinez-Corral, Universitat de Valencia, Spain, Fast Axial Scanning in 3D Imaging , Invited
- Allard Mosk, Universiteit Utrecht, Netherlands, Range of Imaging and Focusing through Scattering Media , Invited
- Jean-Christophe Olivo-Marin, Institut Pasteur, France, Mathematical Microscopy , Invited
- Demetri Psaltis, Ecole Polytechnique Federale de Lausanne, Switzerland, Learning From Examples in Optical Imaging , Invited
- Kari Pulli, Intel Corporation, Computational Photography , Invited
- Dirk Robinson, Skybox Imaging, Computational Imaging Approaches, Challenges and R&D Opportunity in the Earth-imaging Remote Sensing Industry , Invited
- Ariel Schwarz, University of Connecticut, Time Multiplexed Pinholes Array based Imaging in the Gamma and X-ray Spectral Range , Invited
- Anne Sentenac, Fresnel Institut, France, Tomographic Diffraction Microscopy: Improving Marker-free Microscopy Resolution Using Holograms and Numerical Reconstructions , Invited
- Adrian Stern, Ben Gurion University of the Negev, Israel, Compressive Gigavoxel Spectral Imaging, Invited

- Andreas Velten, University of Wisconsin-Madison, United States, Non-line-of-sight Imaging Using Active Light Fields, Invited
- Markus Rossi, Heptagon, Switzerland, Miniaturized 3D Imaging and Sensing Modules, Keynote

Other Achievements

1. Plenary Sessions:

- Trends, Advances and Prospects of Optical Imaging in Germany and Beyond
Michael Totzeck, Fellow, Corporate Research and Technology, Carl Zeiss AG, Germany
- Coherent X-ray Imaging
Keith Nugent, Deputy vice-Chancellor (Research), La Trobe University, Australia
- Fifty Years of Image Science
Chris Dainty, Professorial Research Associate, University College London, UK

2. 3D & DH Joint Keynote

Real-Time and Real-Color Video Imaging System by Photonics Polymers for 8K
Yasuhiro Koike, Professor, Keio University; Director, Keio Photonics Research Institute;
Member of Keio University Board of Councilor, Japan

3. AO & IS Joint Keynote

Adaptive Optics in Vision Science and Ophthalmology
Josef Bille, University of Heidelberg, Germany

4. DH Keynote

The Applications of Inverse Scattering Principles with Digital Holography
YongKeun Park, Associate Professor, Department of Physics, Korea Advanced Inst of
Science & Tech, South Korea

5. AIO and COSI Keynote

Miniaturized 3D Imaging and Sensing Modules
Markus Rossi, Chief Innovation Officer, Heptagon Advanced MicroOptics Pte Ltd,
Switzerland

Training and Professional Development Opportunities

1. The Keys to a Successful Career in Optics; Student & Young Professional Career Panel
The OSA Foundation invited the OSA Members-only career panel for students and young professionals. Hosted by 2016 OSA Ambassadors Aline Dinkelaker and Bettina Heim, the panel featured plenary speakers Chris Dainty, Keith Nugent and Michel Totzeck who discussed career options, the current job market and new technologies to look out for that might be exciting to work with in the future with participants.

2. Poster Sessions

Posters are an integral part of the technical program and offer a unique networking opportunity, where presenters can discuss their results one-to-one with interested parties. The Meeting featured two poster sessions.

3. OSA Holography and Diffractive Optics Technical Group Networking Event
Attendees were invited to the Holography and Diffractive Optics Technical Group for a chance

to learn more about this group while connecting with their peers and colleagues in the community. Yunlong Sheng, who serves as the technical group's chair, and Pascal Picart, who serves as vice chair, shared their vision for the technical group and sought attendees' input on future activities and events.

4. OSA 100th Celebration: Light the Future with Joseph Izatt and Bernard Kress

Attendees had a chance to celebrate OSA'S 100th Anniversary! OSA's Imaging and Applied Optics Light The Future speaker series featured Joseph Izatt, professor of Biophotonics, Duke University, Lighting up the Future of Medical Imaging and Image-guided Therapy and OSA Fellow Bernard Kress, Microsoft, USA, The Light Years Ahead: How Today's Promising Augmented and Virtual Reality Markets Help Shape New Optics Frontiers.

DISSEMINATION

The results of the COSI Meeting have been disseminated to communities of interest through the following channels:

- OSA website (http://www.osa.org/en-us/meetings/osa_meeting_archives/2016/computational_optical_sensing_and_imaging/#speakers)
- OSA Publishing's Digital Library and indexed in Ei Compendex and Scopus (<https://www.osapublishing.org/conference.cfm?meetingid=15&yr=2016>)
- Program Book (http://www.osa.org/osaorg/media/osa.media/Meetings/Archives/2016/2016_Imaging_Program.pdf)
- OSA Blog (http://www.osa.org/en-us/the_optical_society_blog/).

APPENDIX

Appendix A. Schedule at a Glance

	Sunday, 24 July	Monday, 25 July	Tuesday, 26 July	Wednesday, 27 July	Thursday, 28 July
	Registration 13:30-17:00	Registration 7:30-18:30	Registration 8:00-18:00	Registration 8:00-17:30	Registration 8:30-17:30
08:00					
09:00		Plenary Session (9:00 - 11:00)	Technical Sessions (9:00 - 10:30)	Technical Sessions (9:00 - 10:30)	Technical Sessions (9:00 - 10:30)
10:00					
11:00		Coffee Break/Exhibits	Coffee Break/Exhibits	Coffee Break/Exhibits	Coffee Break/Exhibits
12:00		Technical Sessions (11:30 - 12:30)	Technical Sessions (11:30 - 12:30)	Technical Sessions (11:30 - 12:30)	Technical Sessions (11:30 - 12:30)
13:00		Lunch 12:30 - 14:00	Poster Session with Lunch 12:30 - 14:00	Lunch 12:30 - 14:00	Lunch 12:30 - 14:00
14:00	Registration Open	Technical Sessions (14:00 - 16:00)	Free Afternoon (14:00 - 16:30)	Technical Sessions (14:00 - 15:30)	Technical Sessions (14:00 - 16:00)
15:00					
16:00		Beverage Break /Exhibits		Poster Session & Exhibits w/Beverage Break & Snacks (15:30 - 17:00)	Beverage Break/Exhibits
17:00		Technical Sessions (17:00 - 18:00)	Technical Session (16:30 - 18:00)		
18:00			OSA Centennial: Light the Future Event (18:00 - 19:30) Followed by Reception	Technical Sessions (17:00 - 19:30)	Technical Session (17:00 - 18:30)
19:00		Conference Reception River Cruise Ticket Required			
20:00					

Appendix B. Conference Publications for COSI and COSI Joint Sessions

A. Schwarz, A. Shemer, R. Bar-Shalom, H. Avraham, N. Ozana, H. Pinhas, and Z. Zalevsky, "Time Multiplexed Pinholes Array Based Imaging in the Gamma and X-ray Spectral Range," in *Imaging and Applied Optics 2016*, OSA Technical Digest (online) (Optical Society of America, 2016), paper CM2B.1.

N. Han, S. Cho, A. Atabaki, E. Ye, W. Herrington, and R. Ram, "Non-paraxial Talbot Effect for Building Compact Spectrometers," in *Imaging and Applied Optics 2016*, OSA Technical Digest (online) (Optical Society of America, 2016), paper CM2B.2.

A. Kamshilin, I. Sidorov, M. Volynsky, and O. Mamontov, "Video-Based Measurements of Blood Pulsations Delay in Human Faces," in *Imaging and Applied Optics 2016*, OSA Technical Digest (online) (Optical Society of America, 2016), paper CM2B.3.

J. Olivo-Marin, "Mathematical Microscopy," in *Imaging and Applied Optics 2016*, OSA Technical Digest (online) (Optical Society of America, 2016), paper CM3D.1.

M. Martinez-Corral, A. Doblaz, E. Sánchez-Ortiga, G. Saavedra, and Y. Huang, "Fast Axial scanning in 3D imaging," in *Imaging and Applied Optics 2016*, OSA Technical Digest (online) (Optical Society of America, 2016), paper CM3D.2.

S. Ghosh and C. Preza, "Block-Based Restoration Method for Wide-field Microscopy of

Samples with Variable Refractive Index," in Imaging and Applied Optics 2016, OSA Technical Digest (online) (Optical Society of America, 2016), paper CM3D.3.

J. McNally, S. Rehbein, C. Pratsch, S. Werner, P. guttmann, and G. Schneider, "3D PSF Measurement for a Soft X-ray Microscope and Comparison to Theory," in Imaging and Applied Optics 2016, OSA Technical Digest (online) (Optical Society of America, 2016), paper CM3D.4.

O. Wagner, M. Schultz, Y. Ramon, E. Sloutskin, and Z. Zalevsky, "Active-scan linear-optics nanoscopy using optically trapped particles," in Imaging and Applied Optics 2016, OSA Technical Digest (online) (Optical Society of America, 2016), paper CM3D.5.

D. Feldkhun and K. Wagner, "Afocal 3D Fluorescence Microscopy Using F-BASIS," in Imaging and Applied Optics 2016, OSA Technical Digest (online) (Optical Society of America, 2016), paper CM3D.6.

B. Javidi, A. Anand, I. Moon, E. Watanabe, and A. Stern, "Automated Disease Identification using computational 3D Optical Sensing and Imaging Systems," in Imaging and Applied Optics 2016, OSA Technical Digest (online) (Optical Society of America, 2016), paper CM4D.1.

M. Guillon, "The Use of Saturated Negative Speckles for Imaging Through a Scattering Sample," in Imaging and Applied Optics 2016, OSA Technical Digest (online) (Optical Society of America, 2016), paper CM4D.2.

D. Kelly, "Convergence properties of temporal speckle measurements," in Imaging and Applied Optics 2016, OSA Technical Digest (online) (Optical Society of America, 2016), paper CM4D.3.

U. Kamilov, I. Papadopoulos, M. Hashemi, A. Goy, c. vonesch, M. Unser, and D. Psaltis, "Learning From Examples in Optical Imaging," in Imaging and Applied Optics 2016, OSA Technical Digest (online) (Optical Society of America, 2016), paper CT1D.1.

A. Sentenac, P. Chaumet, K. Belkebir, H. Giovannini, G. Maire, A. Talneau, T. Zhang, C. Godhavarti, E. Mudry, and J. Girard, "Tomographic Diffraction Microscopy : Improving Marker-free Microscopy Resolution Using Holograms and Numerical Reconstructions," in Imaging and Applied Optics 2016, OSA Technical Digest (online) (Optical Society of America, 2016), paper CT1D.2.

N. Meitav, E. Ribak, and S. Shoham, "Microscopic PSF Estimation and Resolution Enhancement by Speckle Pattern Illumination," in Imaging and Applied Optics 2016, OSA Technical Digest (online) (Optical Society of America, 2016), paper CT1D.3.

Z. Phillips, M. Chen, and L. Waller, "Single-Shot Quantitative Phase and Amplitude Retrieval Using Color-Multiplexed Differential Phase Contrast Microscopy," in Imaging and Applied Optics 2016, OSA Technical Digest (online) (Optical Society of America, 2016), paper CT1D.4.

P. Sidorenko, E. Pauwels, S. Sabach, Y. Eldar, M. Segev, and O. Cohen, "Towards Ultrafast Subwavelength Microscopy," in Imaging and Applied Optics 2016, OSA Technical Digest

(online) (Optical Society of America, 2016), paper CT2D.1.

P. Konda, J. Taylor, and A. Harvey, "Calibration and Aberration Correction in Multi-Aperture Fourier Ptychography," in *Imaging and Applied Optics 2016*, OSA Technical Digest (online) (Optical Society of America, 2016), paper CT2D.2.

R. Eckert, L. Tian, and L. Waller, "Algorithmic Self-calibration of Illumination Angles in Fourier Ptychographic Microscopy," in *Imaging and Applied Optics 2016*, OSA Technical Digest (online) (Optical Society of America, 2016), paper CT2D.3.

Y. Zhou, J. Wu, Z. Bian, G. Zheng, and Q. Dai, "Wavelength Multiplexed Fourier Ptychographic Microscopy," in *Imaging and Applied Optics 2016*, OSA Technical Digest (online) (Optical Society of America, 2016), paper CT2D.4.

E. Shanblatt, C. Porter, D. Gardner, G. Mancini, R. Karl Jr., M. Tanksalvala, C. Bevis, V. Vartanian, H. Kapteyn, M. Murnane, and D. Adams, "Quantitative Chemically-Specific Coherent Diffractive Imaging of Reactions and Diffusion at Buried Interfaces using a Tabletop EUV Nanoscope," in *Imaging and Applied Optics 2016*, OSA Technical Digest (online) (Optical Society of America, 2016), paper CT4C.1.

G. Dardikman, M. Habaza, L. Waller, and N. Shaked, "GPU-Based Real-Time Processing of 3-D Refractive Index Maps of Biological Cells from Tomographic Phase Microscopy," in *Imaging and Applied Optics 2016*, OSA Technical Digest (online) (Optical Society of America, 2016), paper CT4C.2.

W. Farriss, T. Malhotra, A. Vamivakas, and J. Fienup, "Phase Retrieval in Generalized Two-Path Interferometry," in *Imaging and Applied Optics 2016*, OSA Technical Digest (online) (Optical Society of America, 2016), paper CT4C.3.

D. Marx and B. Kern, "Phase Retrieval Implementation for the WFIRST Coronagraph Development Testbed," in *Imaging and Applied Optics 2016*, OSA Technical Digest (online) (Optical Society of America, 2016), paper CT4C.4.

M. Bergkoetter and J. Fienup, "Phase Retrieval with Linear Chromatic Dispersion," in *Imaging and Applied Optics 2016*, OSA Technical Digest (online) (Optical Society of America, 2016), paper CT4C.5.

G. Dardikman and N. Shaked, "Combined 1-D/2-D Phase Unwrapping for Optically Thick Objects in Tomographic Phase Microscopy," in *Imaging and Applied Optics 2016*, OSA Technical Digest (online) (Optical Society of America, 2016), paper CT4C.6.

A. Herkommer, "Optical design tools for computational imaging systems," in *Imaging and Applied Optics 2016*, OSA Technical Digest (online) (Optical Society of America, 2016), paper CTh1D.1.

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Appendix C. List of COSI Committee Members

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