

## Ground-based and Airborne Telescopes VII

Sunday - Friday 10 - 15 June 2018

### Conference Sessions At A Glance

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**1:** Optical Coatings  
**2:** Infrastructure, Facilities, and Enclosures  
**3:** Project Reviews: Early Operations  
 Posters: Assembly, Integration, and Verification  
 Posters: Calibration, Metrology and Alignment  
 Posters: Construction Project Reviews  
 Posters: Enclosures  
 Posters: Facilities and Infrastructure  
 Posters: Major Observatory Upgrades  
 Posters: Modeling as a Driver of Observatory Design  
 Posters: Optical and Opto-Mechanical Designs  
 Posters: Optical Coatings  
 Posters: Pathfinders/Concepts for Future Telescopes  
 Posters: Project Reviews: Early Operations  
 Posters: Robotic Telescopes and Arrays  
 Posters: Site Characterization, Testing and Development  
 Posters: Telescope Control  
 Posters: Telescope Structures  
 Posters: Wavefront Control, Wavefront Sensing, and Segmented Mirror Alignment  
 Monday Plenary Session  
**4:** Project Reviews: Assembly, Integration, and Verification  
**5:** Modeling as a Driver of Observatory Design I: Joint Session with Conferences 10700 and 10705  
**6:** Modeling as a Driver of Observatory Design II: Joint Session with Conferences 10700 and 10705  
 Tuesday Plenary Session  
**7:** Major Observatory Upgrades  
**8:** Project Reviews: Observatories Under Construction  
**9:** Project Reviews: Early Construction  
**10:** Pathfinder Projects  
 Wednesday Plenary Session  
**11:** Project Reviews: Extremely Large Telescopes  
**12:** Gravitational Wave Observatories  
**13:** Opto-Mechanical Systems  
**14:** Phasing  
 Posters: Telescope Control II  
 Thursday Plenary Session  
**15:** Project Reviews: Robotic Telescopes and Arrays  
**16:** Project Reviews: Projects in Development  
**17:** Alignment and Wavefront Sensing  
**18:** Telescope Structures I  
**19:** Telescope Structures II

### Important Dates

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Abstract Due:  
 15 November 2017  
  
 Author Notification:  
 23 February 2018  
  
 Manuscript Due Date:  
 16 May 2018

### Conference Committee

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#### Conference Chairs

[Heather K. Marshall](#), DKIST/National Solar Observatory (United States)

[Jason Spyromilio](#), European Southern Observatory (Germany)

#### Program Committee

[Bruce C. Bigelow](#), GMTO Corp. (United States)

[Emanuela Ciattaglia](#), European Southern Observatory (Germany)

[Matthew Colless](#), Research School of Astronomy & Astrophysics, The Australian National Univ. (Australia)

[Jean-Gabriel Cuby](#), Lab. d'Astrophysique de Marseille (France)

[Frank W. Kan](#), Simpson Gumpertz & Heger Inc. (United States)

[Victor L. Krabbendam](#), Large Synoptic Survey Telescope (United States)

#### Program Committee continued...

[Jeffrey R. Kuhn](#), Univ. of Hawai'i (United States)

[Amir Sadjadpour](#), Thirty Meter Telescope (United States)

[Predrag Sekulic](#), National Solar Observatory (United States)

[Tim Stevenson](#), SKA Organisation (United Kingdom)

[Tomonori Usuda](#), National Astronomical Observatory of Japan (Japan)

[Jürgen Wolf](#), Deutsches SOFIA Institut (Germany)

[Yongqian Zhu](#), Nanjing Institute of Astronomical Optics & Technology (China)

SUNDAY 10 JUNE

[Show All Abstracts](#)

## Session 1: Optical Coatings

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Sunday 10 June 2018

11:00 AM - 12:00 PM

Location: CC Level 1, Ballroom A

Session Chairs: [Bruce C. Bigelow](#), GMTO Corp. (United States) ; [Frank W. Kan](#), Simpson Gumpertz & Heger Inc. (United States)

### Impact of ion assisted process on protected silver coatings for telescopic mirror applications

**(Canceled)**

Paper 10700-1

Time: 11:00 AM - 11:20 AM


Author(s):

### LSST coating plant status and progress

Paper 10700-153

Time: 11:00 AM - 11:20 AM

Author(s): Tomislav Vucina, LSST (United States), Association of Universities for Research in Astronomy (United States); Norman Muller, Bettina Michel, Markus Gehlert, Jorg Faber, Matthias Smolke, Torsten Wellner, Robert Kunanz, Christian Melde, Heiko Naucke, Peter Espig, VON ARDENNE GmbH (Germany); William J. Gressler, Jacques Sebag, John Andrew, Douglas R. Neill, LSST (United States), Association of Universities for Research in Astronomy (United States)


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### Lessons learned from wet washing the 6.5m MMT primary mirror in-situ

Paper 10700-2

Time: 11:20 AM - 11:40 AM

Author(s): Ricardo Ortiz, Joseph T. Williams, William Goble, MMT Observatory (United States)

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### Instrumental polarization of the off-axis main optics of the Goode Solar telescope

**(Canceled)**

Paper 10700-3

Time: 11:40 AM - 12:00 PM

Author(s):

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## Lunch Break 12:00 PM - 1:30 PM

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## Session 2: Infrastructure, Facilities, and Enclosures

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Sunday 10 June 2018

1:30 PM - 3:30 PM

Location: CC Level 1, Ballroom A


Session Chairs: [Heather K. Marshall](#), National Solar Observatory (United States) ; [Amir Sadjadpour](#), Thirty Meter Telescope (United States)

### Designing an effective SALT building management system (BMS)

Paper 10700-4

Time: 1:30 PM - 1:50 PM

Author(s): Paul Rabe, Keith R. J. Browne, Eben Wiid, Jonathan Love, Janus D. Brink, Hitesh Gajjar, Chris Coetzee, Martin Wilkinson, Southern African Large Telescope (South Africa)


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### Design and construction of the SST Australia Observatory in a cyclonic region

Paper 10700-5

Time: 1:50 PM - 2:10 PM

Author(s): Jose Teran, Derek Hill, Allan Ortega, M3 Engineering &amp; Technology Corp. (United States); Cory Lindh, Uni-Systems Engineering (United States)


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### The LSST dome: manufacturing and erection status

Paper 10700-6

Time: 2:10 PM - 2:30 PM

Author(s): William J. Gressler, Douglas R. Neill, LSST (United States); Simone De Lorenzi, Gianpietro Marchiori, Tommaso Marchiori, Alvise Tosi, EIE Group s.r.l. (Italy)


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### Procurement of the dome and the telescope structure of the ESO ELT: status report

Paper 10700-7

Time: 2:30 PM - 2:50 PM

Author(s): Stefano Stanghellini, Pascal Martinez, Maximilian Kraus, European Southern Observatory (Germany)


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**GMT site, enclosure, and facilities: design and construction update**

Paper 10700-8

Time: 2:50 PM - 3:10 PM


Author(s): Eric Grigel, M3 Engineering &amp; Technology Corp. (United States); Bruce C. Bigelow, William S. Burgett, Gustavo Arriagada, Robert Turner, Bahram Talison, Chris Madden, Francisco Figueroa, GMTO Corp. (United States); Jose Teran, Eric Manuel, M3 Engineering &amp; Technology Corp. (United States)

[Add To My Schedule](#) **Lessons learned from design, analysis, and rehabilitation of wheel and track systems (Conference Presentation)**

Paper 10700-9

Time: 3:10 PM - 3:30 PM

Author(s): Frank W. Kan, Andrew Sarawit, Simpson Gumpertz &amp; Heger Inc. (United States)

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**Coffee Break 3:30 PM - 4:00 PM**

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**Session 3:  
Project Reviews: Early Operations**

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Sunday 10 June 2018

4:00 PM - 5:30 PM

Location: CC Level 1, Ballroom A

Session Chairs: [Jürgen Wolf](#), Deutsches SOFIA Institut (Germany) ; [Tomonori Usuda](#), National Astronomical Observatory of Japan (Japan)


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**The Large Millimeter telescope Alfonso Serrano: scientific operation of the LMT 50-m, first results and next steps (Conference Presentation) (Invited Paper)**

Paper 10700-10

Time: 4:00 PM - 4:30 PM


Author(s): David H. Hughes, Instituto Nacional de Astrofísica, Óptica y Electrónica (Mexico); F. Peter Schloerb, Min S. Yun, Univ. of Massachusetts Amherst (United States); Miguel Chávez, Instituto Nacional de Astrofísica, Óptica y Electrónica (Mexico); Grant W. Wilson, Gopal Narayanan, Neal Erickson, Univ. of Massachusetts Amherst (United States); David R. Smith, MERLAB, P.C. (United States); Kamal Souccar, Univ. of Massachusetts Amherst (United States); David M. Gale, José Luis Hernández Rebollar, Daniel Ferrusca, Miguel Velazquez, Instituto Nacional de Astrofísica, Óptica y Electrónica (Mexico); David Sánchez-Argüelles, Edgar Castillo, Consejo Nacional de Ciencia y Tecnología (Mexico), Instituto Nacional de Astrofísica, Óptica y Electrónica (Mexico); Itziar Aretxaga, Instituto Nacional de Astrofísica, Óptica y Electrónica (Mexico); Alexandra Pope, Univ. of Massachusetts Amherst (United States); Shep Doleman, Harvard-Smithsonian Ctr. for Astrophysics (United States); Alfredo Montaña, Arturo Gómez-Ruiz, Consejo Nacional de Ciencia y Tecnología (Mexico), Instituto Nacional de Astrofísica, Óptica y Electrónica (Mexico)

[Add To My Schedule](#) **Commissioning and first scientific operations of the wide-field 2.6m Javalambre Survey Telescope (Invited Paper)**

Paper 10700-11

Time: 4:30 PM - 5:00 PM


Author(s): A. Javier Cenarro Lagunas, Alessandro Ederoclitte, César Íñiguez García, Antonio Marín-Franch, Héctor Vázquez-Ramió, Axel Yanes Díaz, Sergio Chueca, Néstor M. Lasso-Cabrera, Sergio Rueda-Teruel, Fernando Rueda-Teruel, David Cristóbal-Hornillos, Jesús Varela, Guillermo López-Alegre, Rafael Bello Ferrer, Juan Luis Antón-Bravo, Samuel Bielsa de Toledo, Mikel Domínguez-Martínez, Alberto Moreno-Signes, Ramón Iglesias-Marzoa, Miguel Chioare Díaz-Martín, Tamara Civera Lorenzo, Javier Hernández-Fuertes, David Muniesa-Gallardo, Juan Castillo, Ángel López-Sáinz, Mariano Moles, Ctr. de Estudios de Física del Cosmos de Aragón (Spain); Gregory Lousberg, Christian Bastin, Olivier Pimay, AMOS (Belgium)

[Add To My Schedule](#) **SOFIA in the era of JWST and ALMA (Invited Paper)**

Paper 10700-12

Time: 5:00 PM - 5:30 PM

Author(s): Harold Yorke, Erick T. Young, Eric E. Becklin, SOFIA / USRA (United States)

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**Posters: Assembly, Integration, and Verification**

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Sunday 10 June 2018

6:00 PM - 8:00 PM

Location: CC Level 1, Exhibit Hall 2

Posters in this session may be displayed beginning at 10.00 on the designated day and will be available for extended viewing. The interactive poster session with authors in attendance will be Sunday evening from 6:00 to 8:00 PM. Authors should remove their posters at the end of the poster session. Posters left displayed will be considered unwanted and will be discarded.

Poster presentation guidelines are available [online](#).


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**Design of semi-physical fault simulation platform for Antarctic telescopes**

Paper 10700-71

Time: 6:00 PM - 8:00 PM

Author(s): Shihai Yang, Yun Li, Dandan Xu, Jiajia Wu, Nanjing Institute of Astronomical Optics &amp; Technology (China)


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**The astronomical telescope of the University of Stuttgart (ATUS): commissioning and first results**

Paper 10700-72

Time: 6:00 PM - 8:00 PM


Author(s): Karsten Schindler, Jürgen Wolf, Deutsches SOFIA Institut, Univ. Stuttgart (Germany), NASA Ames Research Ctr. (United States); Alfred Krabbe, Deutsches SOFIA Institut, Univ. Stuttgart (Germany)

[Add To My Schedule](#) **Technical engineering documentation for the construction, operation and maintenance of the LSST, Large Synoptic Survey Telescope**

Paper 10700-73

Time: 6:00 PM - 8:00 PM


Author(s): Ulrike Angela Hautmann, Douglas R. Neill, National Optical Astronomy Observatory (United States)

[Add To My Schedule](#) **The fault analysis method of FAST actuator based on feedback data**

Paper 10700-74

Time: 6:00 PM - 8:00 PM


Author(s): Lichun Zhu, National Astronomical Observatories, Chinese Academy of Sciences (China)

[Add To My Schedule](#) **Lessons learned from the investigation of an anomalous termination of BETTII**

Paper 10700-75

Time: 6:00 PM - 8:00 PM


Author(s): Todd J. Veach, Southwest Research Institute (United States); Stephen A. Rinehart, NASA Goddard Space Flight Ctr. (United States); D. J. Fixsen, NASA Goddard Space Flight Ctr. (United States), Univ. of Maryland, College Park (United States); Maxime J. Rizzo, NASA Goddard Space Flight Ctr. (United States); Arnab Dhabal, Univ. of Maryland, College Park (United States); Jordi Vila Hernández de Lorenzo, The Catholic Univ. of America (United States); Stephen F. Maher, Elmer H. Sharp, NASA Goddard Space Flight Ctr. (United States)

[Add To My Schedule](#) **Commissioning status of the Greenland Telescope (GLT)**

Paper 10700-76

Time: 6:00 PM - 8:00 PM

Author(s): Satoki Matsushita, Keiichi Asada, Makoto Inoue, Hiroaki Nishioka, Chih-Wei L. Huang, Institute of Astronomy and Astrophysics - Academia Sinica (Taiwan); Nimesh A. Patel, Smithsonian Astrophysical Observatory (United States); Jun-Yi Koay, Shoko Koyama, Patrick M. Koch, Zheng Meyer-Zhao, Lupin C. C. Lin, Paul T. P. Ho, Ming-Tang Chen, Institute of Astronomy and Astrophysics - Academia Sinica (Taiwan); Timothy J. Norton, Harvard-Smithsonian Ctr. for Astrophysics (United States); Kuan-Yu Liu, Chen-Yu Yu, Institute of Astronomy and Astrophysics - Academia Sinica (Taiwan); Do-Young Byun, Korea Astronomy and Space Science Institute (Korea, Republic of); Juan-Carlos Algaba Marcos, Institute of Astronomy and Astrophysics - Academia Sinica (Taiwan); Alex Allardi, Harvard-Smithsonian Ctr. for Astrophysics (United States); Geoffrey C. Bower, Institute of Astronomy and Astrophysics - Academia Sinica (United States); Shu-Hao Chang, Chung-Chen Chen, Institute of Astronomy and Astrophysics - Academia Sinica (Taiwan); Ryan Chilson, Institute of Astronomy and Astrophysics - Academia Sinica (United States); Aaron Faber, Institute of Astronomy and Astrophysics (Taiwan); Johnson C. C. Han, Yau-De Huang, Homin Jiang, Institute of Astronomy and Astrophysics - Academia Sinica (Taiwan); Derek Y. Kubo, Institute of Astronomy and Astrophysics - Academia Sinica (United States); Ching-Tang Liu, National Chung-Shan Institute of Science and Technology (Taiwan); Wen-Ping Lo, Pierre Martin-Cocher, Masanori Nakamura, George Nystrom, Institute of Astronomy and Astrophysics - Academia Sinica (Taiwan); Peter Oshiro, Institute of Astronomy and Astrophysics - Academia Sinica (United States); Hung-Yi Pu, Philippe Raffin, Paul Shaw, Williams Snow, Institute of Astronomy and Astrophysics - Academia Sinica (Taiwan); Ranjani Srinivasan, Institute of Astronomy and Astrophysics - Academia Sinica (United States); Ta-Shun Wei, Institute of Astronomy and Astrophysics - Academia Sinica (Taiwan); Ryan M. Berthold, James Clerk Maxwell Telescope (United States); Dan Bintley, Jessica T. Dempsey, Per Friberg, Craig A. Walther, East Asian Observatory (United States); Jonathan Weintroub, André Young, Ken Young, T. K. Sridharan, Sheperd S. Doeleman, Roger Brissenden, Smithsonian Astrophysical Observatory (United States); Hideo Ogawa, Kimihiro Kimura, Yutaka Hasegawa, Osaka Prefecture University (Japan); Jinchao Hao, National Chung-Shan Institute of Science and Technology (Taiwan); Kou-Chang Han, National Chung-Shan Institute of Science and Technology (Korea, Republic of); Song-Chu Chang, Li-Ming Lu, National Chung-Shan Institute of Science and Technology (Taiwan)

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## Posters: Calibration, Metrology and Alignment

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Sunday 10 June 2018

6:00 PM - 8:00 PM

Location: CC Level 1, Exhibit Hall 2


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Poster presentation guidelines are available [online](#).**The fiber view metrology system design for spectral survey telescope**

Paper 10700-77

Time: 6:00 PM - 8:00 PM

Author(s): Kang Zhao, Zhigang Liu, Hongzhan Hu, Jianping Wang, Chao Zhai, Zengxiang Zhou, Univ. of Science and Technology of China (China)


[Add To My Schedule](#) **New Hobby Eberly telescope metrology systems: design, implementation, and on-sky performance**

Paper 10700-78

Time: 6:00 PM - 8:00 PM

Author(s): Hanshin Lee, Gary J. Hill, Niv Drory, Brian L. Vattiat, Jason Ramsey, The Univ. of Texas at Austin (United States); Randy Bryant, Matthew Shetrone, Stephen Odewahn, Sergey Rostopchin, Hobby-Eberly Telescope (United States); Martin Landriau, Lawrence Berkeley National Lab. (United States)

States); James Fowler, Hobby-Eberly Telescope (United States); Ron Leck, The Univ. of Texas at Austin (United States); Herman Kriel, George Damm, Hobby-Eberly Telescope (United States)


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#### Deformation measurements of the LMT/GTM receiver cabin

Paper 10700-80

Time: 6:00 PM - 8:00 PM

Author(s): David R. Smith, MERLAB, P.C. (United States); David M. Gale, Maribel Lucero, Carlos A. Tzile Torres, Marcos Emir Moreno, Instituto Nacional de Astrofísica, Óptica y Electrónica (Mexico)


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#### Preliminary AIT plan for the FSM segments of GMT

Paper 10700-82

Time: 6:00 PM - 8:00 PM

Author(s): Jeong-Yeol Han, Sungho Lee, Sanghyuk Kim, Yunjong Kim, Ueejeong Jeong, Korea Astronomy and Space Science Institute (Korea, Republic of); Myung K. Cho, National Optical Astronomy Observatory (United States); Christoph Dribusch, The Univ. of Arizona (United States); Bong-Kon Moon, Chang-Hee Kim, Chan Park, Byeong-Gon Park, Korea Astronomy and Space Science Institute (Korea, Republic of); Youra Jun, Jieun Ryu, The Univ. of Arizona (United States); Gary Poczulp, Ming Liang, National Optical Astronomy Observatory (United States); Il-Kwon Moon, Korea Research Institute of Standards and Science (Korea, Republic of); Chan-Hee Lee, Won Gi Lee, Ho-Sang Kim, Institute for Advanced Engineering (Korea, Republic of); Paul Gardner, Robert J. Bernier, Frank Groark, Hugo Chiquito, GMTO Corp. (United States)


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#### Subreflector adjustment system for NSRT

Paper 10700-83

Time: 6:00 PM - 8:00 PM

Author(s): Binbin Xiang, Na Wang, Maozheng Chen, Yusup Aili, Qian Xu, Fei Xue, Guljaina Hazezhan, Dalin He, Zhigang Wen, Xinjiang Astronomical Observatory (China)


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#### Analysis of total station real-time atmospheric correction model in FAST measurement

Paper 10700-84

Time: 6:00 PM - 8:00 PM

Author(s): Song BenNing, LiChun Zhu, Dongjun Yu, BaoQing Zhao, National Astronomical Observatories (China)


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#### Comparison of misalignment compensation methods for DKIST

Paper 10700-85

Time: 6:00 PM - 8:00 PM

Author(s): Predrag Sekulic, Chen Liang, National Solar Observatory (United States)

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## Posters: Construction Project Reviews

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Sunday 10 June 2018

6:00 PM - 8:00 PM

Location: CC Level 1, Exhibit Hall 2

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Poster presentation guidelines are available [online](#).


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#### LSST telescope and site status

Paper 10700-88

Time: 6:00 PM - 8:00 PM

Author(s): William J. Gressler, Grissel Coleman, Francisco Delgado, Douglas R. Neill, Jacques Sebag, LSST (United States); Andrew Serio, Large Synoptic Survey Telescope (United States); Sandrine Thomas, LSST (United States)


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#### Eastern Anatolia Observatory (DAG): recent developments 2017

Paper 10700-89

Time: 6:00 PM - 8:00 PM

Author(s): Cahit Yeşilyaprak, Atatürk Üniv. (Turkey); Onur Keskin, Isik Üniv. (Turkey)

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## Posters: Enclosures

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Sunday 10 June 2018

6:00 PM - 8:00 PM

Location: CC Level 1, Exhibit Hall 2

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#### Enclosure azimuth rotation system analysis of alternatives for the Giant Magellan Telescope

Paper 10700-90

Time: 6:00 PM - 8:00 PM

Author(s): Cory Lindh, Tom Hayes, Uni-Systems Engineering (United States); Eric Grigel, José Teran, M3 Engineering & Technology Corp. (United States); Bruce C. Bigelow, Christopher Madden, GMTO Corp. (United States)


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#### MROI unit telescope enclosure manufacturing and tests

Paper 10700-91

Time: 6:00 PM - 8:00 PM

Author(s): Davide Marzotto, Andrea Busatta, Gianpietro Marchiori, EIE Group s.r.l. (Italy); Ifan Payne, Magdalena Ridge Observatory (United States)


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#### ELT design status: the biggest dome in astronomy

Paper 10700-92

Time: 6:00 PM - 8:00 PM

Author(s): Gianpietro Marchiori, Francesco Rampini, Stefano Mian, Riccardo Bressan, EIE Group s.r.l. (Italy)

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## Posters: Facilities and Infrastructure

Sunday 10 June 2018

6:00 PM - 8:00 PM

Location: CC Level 1, Exhibit Hall 2

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#### Telescopio San Pedro Mártir Observatory final design

Paper 10700-93

Time: 6:00 PM - 8:00 PM

Author(s): Jose Teran, M3 Engineering & Technology Corp. (United States); William H. Lee, Michael G. Richer, Beatriz S. Sánchez, David Urdaibay, Univ. Nacional Autónoma de México (Mexico); Regina Hernandez-Limonchi, Jacob Lauderdale, Allan Ortega Gutierrez, M3 Engineering & Technology Corp. (United States); Cory Lindh, Uni-Systems Engineering (United States)

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#### Tiltmeter evaluation of the LMT/GTM azimuth track following the earthquake of September 2017

Paper 10700-94

Time: 6:00 PM - 8:00 PM

Author(s): David R. Smith, MERLAB, P.C. (United States); Kamal Souccar, Univ. of Massachusetts Amherst (United States); Marcos Emir Moreno, Instituto Nacional de Astrofísica, Óptica y Electrónica (Mexico)


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#### GMT refrigerant-based cooling system and design considerations

Paper 10700-95

Time: 6:00 PM - 8:00 PM

Author(s): Oliver McIrwinn, GMTO Corp. (United States); Mark Fraser, M3 Engineering & Technology Corp. (United States); David S. Ashby, GMTO Corp. (United States); José Terán, M3 Engineering & Technology Corp. (United States)


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#### Selecting a phase-change refrigerant for non-cryogenic observatory cooling

Paper 10700-96

Time: 6:00 PM - 8:00 PM

Author(s): Hugh A. Thompson, Thirty Meter Telescope (United States); Adam Densmore, Glen Herriot, NRC - Herzberg Astronomy & Astrophysics (Canada); Brent Ellerbroek, Thirty Meter Telescope (United States); Calvin Winter, Quantum Technology Corp. (Canada); Hainan Zhang, Technical Institute of Physics and Chemistry (China), Chinese Academy of Sciences (China); Virginia Aragon-Barnes, Thirty Meter Telescope (United States)

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## Posters: Major Observatory Upgrades

Sunday 10 June 2018

6:00 PM - 8:00 PM

Location: CC Level 1, Exhibit Hall 2

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#### Instrument upgrade paths at the Apache Point Observatory 3.5m

Paper 10700-97

Time: 6:00 PM - 8:00 PM

Author(s): Sarah E. Tuttle, Kal Kadlec, Univ. of Washington (United States); Russet McMillian, Apache Point Observatory (United States); Nancy Chanover, New Mexico State Univ. (United States); William Ketzecback, Apache Point Observatory (United States)


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#### A rapid feed switching mechanism design for NSRT

Paper 10700-98

Time: 6:00 PM - 8:00 PM

Author(s): Qian Xu, Letian Yi, Xinjiang Astronomical Observatory (China); Lin Li, Xinjiang Univ. (China); Maozheng Chen, Na Wang, Xinjiang Astronomical Observatory (China); Yan Li, The North West China Research Institute of Electronic Equipment (China)


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#### The MMT Observatory: entering a new era of scientific discovery

Paper 10700-99

Time: 6:00 PM - 8:00 PM

Author(s): Grant Williams, MMT Observatory (United States)


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#### Upgrade of the CFHT closed-cycle cooling heat-rejection process

Paper 10700-100

Time: 6:00 PM - 8:00 PM

Author(s): Ivan A. Look, Canada-France-Hawaii Telescope (United States); Charles Cavedoni, Gemini Observatory (United States); Grant Matsushige, Tom Vermeulen, Casey Eliazares, Steven E. Bauman, Canada-France-Hawaii Telescope (United States)


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#### Review of the refurbishment project for NSRT

Paper 10700-102

Time: 6:00 PM - 8:00 PM

Author(s): Qian Xu, Xinjiang Astronomical Observatory (China); Lin Li, Xinjiang Univ. (China); Na Wang, Xinjiang Astronomical Observatory (China)


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#### Revival of an abandoned telescope: the Boller and Chivens Bochum 0.61-metre telescope of Universidad de Valparaiso

Paper 10700-103

Time: 6:00 PM - 8:00 PM

Author(s): Sebastián Zúñiga-Fernández, Maja Vuckovic, Nikolaus Vogt, Omar Cuevas, Univ. de Valparaiso (Chile); Yerko Chacon, Observatorio Pucuro (Chile)


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#### How do we design the interferometric system focused on the analog and digital backend and the correlator for scientifically valuable ALMA developments?

Paper 10700-104

Time: 6:00 PM - 8:00 PM

Author(s): Satoru Iguchi, Álvaro González, Takafumi Kojima, Wenlei Shan, National Astronomical Observatory of Japan (Japan), Graduate Univ. for Advanced Studies (Japan); George Kosugi, National Astronomical Observatory of Japan (Japan); Shin'ichiro Asayama, Daisuke Iono, National Astronomical Observatory of Japan (Japan), Graduate Univ. for Advanced Studies (Japan)


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#### UKIRT under new management: status and plans

Paper 10700-105

Time: 6:00 PM - 8:00 PM

Author(s): Klaus W. Hodapp, Tom Kerr, Watson Varricatt, Robert A. McLaren, David Lonborg, Donald N. B. Hall, Shane Jacobson, Institute for Astronomy (United States); Justice Bruursema, Scott E. Dahm, Bryan N. Dorland, Jeff A. Munn, Frederick J. Vrba, U.S. Naval Observatory (United States); Jessica Dempsey, East Asian Observatory (United States); Yossi Shvartzvald, IPAC, Caltech (United States); Geoffrey Bryden, JPL, Caltech (United States); B. Scott Gaudi, Ohio State University (United States); Charles A. Beichman, Sebastiano Calchi Novati, Calen Henderson, IPAC (United States); Savannah R. Jacklin, Keivan Stassun, Vanderbilt University (United States); Matthew T. Penny, Ohio State University (United States); Mike Irwin, Cambridge University (United Kingdom); Andy Lawrence, University of Edinburgh (United Kingdom)

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## Posters: Modeling as a Driver of Observatory Design

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Sunday 10 June 2018

6:00 PM - 8:00 PM

Location: CC Level 1, Exhibit Hall 2

Posters in this session may be displayed beginning at 10.00 on the designated day and will be available for extended viewing. The interactive poster session with authors in attendance will be Sunday evening from 6:00 to 8:00 PM. Authors should remove their posters at the end of the poster session. Posters left displayed will be considered unwanted and will be discarded.

Poster presentation guidelines are available [online](#).

#### Minimization of seismic risk at the Giant Magellan telescope

(Canceled)

Paper 10700-108

Time: 6:00 PM - 8:00 PM


Author(s):

#### The hardware control system for WEAVE at the William Herschel Telescope

Paper 10700-109

Time: 6:00 PM - 8:00 PM

Author(s): José Miguel Delgado Hernández, Instituto de Astrofísica de Canarias (Spain); Saúl Menéndez Mendoza, Universidad de La Laguna (Spain); José Alonso Burgal, José Miguel Herreros Linares, Instituto de Astrofísica de Canarias (Spain); Sergio Picó, Don Carlos Abrams, Carlos Martín, Diego Cano, F.J. Gribbin, Jure Skvarc, Kevin M. Dee, Émilie Lhome, Isaac Newton Group of Telescopes (Spain); Gavin Dalton, STFC Rutherford Appleton Lab. (United Kingdom), Univ. of Oxford (United Kingdom); Kevin Middleton, STFC Rutherford Appleton Lab. (United Kingdom); Scott Trager, Kapteyn Astronomical Institute, Univ. of Groningen (Netherlands); Jose Alfonso López Aguerri, Instituto de Astrofísica de Canarias (Spain); Piercarlo Bonifacio, Observatoire de Paris à Meudon (France), Galaxies Etoiles Physique Instrumentation (France), Univ. de recherche PSL (France); Antonella Vallenari, INAF - Osservatorio Astronomico di Padova (Italy); Esperanza Carrasco, Instituto Nacional de Astrofísica, Óptica y Electrónica (Mexico)


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#### Control algorithm and performance of the active optics system of the Giant Magellan Telescope

Paper 10700-110

Time: 6:00 PM - 8:00 PM

Author(s): Rodolphe Conan, GMTO Corp. (United States); Marcos A. van Dam, Flat Wavefronts (New Zealand); Antonin H. Bouchez, George Z. Angeli, Dave Ashby, GMTO Corp. (United States); Brian A. McLeod, Smithsonian Astrophysical Observatory (United States); Fernando Quirós-Pacheco, GMTO Corp. (United States)

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## Posters: Optical and Opto-Mechanical Designs

Sunday 10 June 2018

6:00 PM - 8:00 PM

Location: CC Level 1, Exhibit Hall 2

Posters in this session may be displayed beginning at 10.00 on the designated day and will be available for extended viewing. The interactive poster session with authors in attendance will be Sunday evening from 6:00 to 8:00 PM. Authors should remove their posters at the end of the poster session. Posters left displayed will be considered unwanted and will be discarded.


Poster presentation guidelines are available [online](#).

#### LSST primary/tertiary mirror cell assembly integration

Paper 10700-111

Time: 6:00 PM - 8:00 PM

Author(s): Constanza Araujo Hauck, Micheal Booth, Christopher Contaxis, Andy Clements, Felipe Daruich, Ed Hileman, Brian Johnson, Neill Mills, Gary Muller, Ed Stover, Michael Warner, Oliver Wiecha, Douglas R. Neill, William J. Gressler, LSST (United States)


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#### GMT M1 subsystem: status, design and testing

Paper 10700-113

Time: 6:00 PM - 8:00 PM

Author(s): Francisco Aguayo, David S. Ashby, Erich Bugueno, Barbara Fischer, GMTO Corp. (United States); John Ford, University of Arizona (United States); Peter Gray, GMTO Corp. (United States); Michael Gusick, Univeristy of Arizona (United States); Anthony Hebert, Zaven Kechichian, Trupti Ranka, Dev Sharma, Jose Soto, Hector Swett, Divya Thanasekaran, Frank Tian, Abhijit Wadhavkar, GMTO Corp. (United States)


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#### Pre-construction results of giant steerable science mirror for TMT

Paper 10700-115

Time: 6:00 PM - 8:00 PM

Author(s): Fei Yang, Hongchao Zhao, Qichang An, Peng Guo, Changchun Institute of Optics, Fine Mechanics and Physics (China); Haibo Jiang, Pengfei Guo, Institute of Optics and Electronics, Chinese Academy of Sciences (China); Jing Zhang, Changchun Univ. of Science and Technology (China)

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#### LSST universal controllers from inception to implementation

(Canceled)

Paper 10700-116

Time: 6:00 PM - 8:00 PM


Author(s):

#### Testing and status of the LSST hexapods and rotator

Paper 10700-117

Time: 6:00 PM - 8:00 PM

Author(s): Ryan C. Sneed, Moog CSA Engineering (United States); Douglas R. Neill, LSST (United States); Brendan Caldwell, Bryan Walter, Moog CSA Engineering (United States); Harini Sundararaman, Mike Warner, LSST (United States)

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**Testing process for the WEAVE prime focus corrector lenses for the William Herschel Telescope**

Paper 10700-118

Time: 6:00 PM - 8:00 PM


Author(s): Djjana Bogunovic, Graeme Jonas, Dave Cochrane, KiwiStar Optics, Callaghan Innovation (New Zealand); Andrew Rakich, Mersenne Optical Consulting Ltd. (United States); Peter Connor, Abe Romeril, KiwiStar Optics, Callaghan Innovation (New Zealand); Jimi Romeril, KiwiStar Optics (New Zealand); Luke Gers, KiwiStar Optics, Callaghan Innovation (New Zealand); Eleanor Howick, Chris Young, Callaghan Innovation (New Zealand); Tony Reed, KiwiStar Optics (New Zealand); Ian Tosh, STFC Rutherford Appleton Lab. (United Kingdom); Émilie Lhomé, Kevin M. Dee, Isaac Newton Group of Telescopes (Spain); Gavin Dalton, STFC Rutherford Appleton Lab. (United Kingdom), Univ. of Oxford (United Kingdom); Scott Trager, Kapteyn Astronomical Institute, Univ. of Groningen (Netherlands); Jose Alfonso López Aguerri, Instituto de Astrofísica de Canarias (Spain); Piercarlo Bonifacio, Galaxies Etoiles Physique Instrumentation, Ctr. National de la Recherche Scientifique (France), Observatoire de Paris (France), Univ. PSL (France); Antonella Vallenari, INAF - Osservatorio Astronomico di Padova (Italy); Esperanza Carrasco, Instituto Nacional de Astrofísica, Óptica y Electrónica (Mexico); Don Carlos Abrams, Isaac Newton Group of Telescopes (Spain); Kevin Middleton, STFC Rutherford Appleton Lab. (United Kingdom)

[Add To My Schedule](#) **Electronic control design of a two-channel imaging system of a 1.2-meter-aperture telescope**

Paper 10700-119

Time: 6:00 PM - 8:00 PM


Author(s): Jin-ting Chen, Hong-fei Zhang, Ming-hao Jia, Ya-qi Chen, Yi-ling Xu, Guang-yu Zhang, Yi Feng, Zhen-feng Sheng, Chen-wei Yang, Univ. of Science and Technology of China (China); Liang Xu, Yong-chao Ding, Yunnan Observatories (China); Liang Chang, Yunnan Observatories, Chinese Academy of Sciences (China); Jian Wang, Univ. of Science and Technology of China (China)

[Add To My Schedule](#) **The realization of the M1 segment support structure for ELT**

Paper 10700-120

Time: 6:00 PM - 8:00 PM


Author(s): Jan Nijenhuis, Will Crowcombe, Nico van der Heiden, Rene Hazelebach, Daniël Naron, TNO (Netherlands)

[Add To My Schedule](#) **The LSST commissioning camera status and progress**

Paper 10700-121

Time: 6:00 PM - 8:00 PM


Author(s): James Howard, LSST (United States); Kevin Reil, SLAC National Accelerator Lab (United States); Chuck Claver, Brian Stalder, Ming Liang, Tei-Wei Tsai, LSST (United States); Travis Lange, SLAC National Accelerator Lab (United States); Justine Haupt, Brookhaven National Laboratory (United States); Oliver Wiecha, LSST (United States); Margaux Lopez, SLAC National Accelerator Lab (United States); Gary Poczulp, LSST (United States); Diane Hascall, SLAC National Accelerator Lab (United States); Douglas R. Neill, Jacques Sebag, LSST (United States)

[Add To My Schedule](#) **Cold optical design for the large aperture Simons' Observatory telescope**

Paper 10700-122

Time: 6:00 PM - 8:00 PM


Author(s): Simon R. Dicker, Univ. of Pennsylvania (United States); Patricio A. Gallardo, Department of Physics, Cornell University (United States); Jon E. Gudmundsson, Department of Physics, Stockholm University (Sweden); Phillip Mauskopf, School of Earth and Space Exploration and Department of Physics, Arizona State University (United States); Aamir Ali, Department of Physics, University of California (United States); Peter Ashton, Department of Physics, University of California, Berkeley (United States); Gabriele Coppi, Mark J. Devlin, Univ. of Pennsylvania (United States); Nicholas Galitzki, Department of Physics, UCSD (United States); Shuay-Pwu P. Ho, Department of Physics, Princeton University (United States); Charles A. Hill, Department of Physics, University of California, Berkeley (United States); Johannes Hubmayr, NIST, Boulder (United States); Brian Keating, Department of Physics, UCSD (United States); Adrian T. Lee, Department of Physics, University of California, Berkeley (United States); Michele Limon, Univ. of Pennsylvania (United States); Frederick Matsuda, Kavli IPMU (WPI), The University of Tokyo (Japan); Jeff McMahon, Department of Physics, University of Michigan (United States); Michael D. Niemack, Department of Physics, Cornell University (United States); John L. Orlowski-Scherer, Univ. of Pennsylvania (United States); Lucio Piccirillo, University of Manchester (United Kingdom); Maria Salatino, Paris Diderot University (France); Sara M. Simon, Department of Physics, University of Michigan (United States); Suzanne T. Staggs, Department of Physics, Princeton University (United States); Robert Thornton, Department of Physics and Engineering, West Chester University of Pennsylvania (United States); Joel N. Ullom, NIST, Boulder (United States); Eve M. Vavagiakis, Department of Physics, Cornell University (United States); Edward J. Wollack, NASA/Goddard Space Flight Center (United States); Zhilei Xu, Ningfeng Zhu, Univ. of Pennsylvania (United States)

[Add To My Schedule](#) **MELT: an optomechanical emulation testbench for ELT wavefront control and phasing strategy**

Paper 10700-123

Time: 6:00 PM - 8:00 PM

Author(s): Thomas Pfrommer, Steffan A. Lewis, Johan Kosmalski, Paolo La Penna, Christoph Frank, Ivan Guidolin, Samuel Lévêque, Anne-Laure Cheffot, Henri Bonnet, Nick Korweibel, Jason Spyromilio, European Southern Observatory (Germany)

[Add To My Schedule](#) **LSST M1M3 active mirror support system optimized to accommodate rapid telescope motions**

Paper 10700-124

Time: 6:00 PM - 8:00 PM


Author(s): Felipe Daruich, Douglas Neill, LSST (United States); Michael Warner, AURA/LSST (Chile); Edward Hileman, LSST (United States); Myung Cho, Christoph Dribusch, NOAO (United States); Constanza Araujo, Michael Booth, Christopher Contaxis, LSST (United States); Ron Harris, NOAO (United States); Brian Johnson, LSST (United States); Garry Knight, Garry Knight LLC (United States); Neill Mills, Gary Muller, Edward Stover, Oliver Wiecha, Bo Xin, LSST (United States)

[Add To My Schedule](#) **LSST camera L1-L2 lens assembly performance and as-built model based on component optical and structural testing**

Paper 10700-126

Time: 6:00 PM - 8:00 PM

Author(s): Allison A. Barto, Ball Aerospace (United States); Scott Winters, Lawrence Livermore National Lab. (United States); Jim Burge, Arizona Optical Systems, LLC (United States); Deborah Davies, Andy Sievers, Ball Aerospace (United States)


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#### Structural design techniques applied in astronomical instruments

Paper 10700-128

Time: 6:00 PM - 8:00 PM

Author(s): Alejandro S. Farah, Rosaliá Langarica, Alan M. Watson, Jorge Fuentes-Fernández, Salvador Cuevas Cardona, Fernando Ángeles, Silvio J. Tinoco, Univ. Nacional Autónoma de México (Mexico); Jaime Ruiz-Díaz-Soto, Univ. (Mexico); Carlos Tejada, Fernando Quirós, Univ. Nacional Autónoma de México (Mexico); J. Floriot, M. Marcos, S. Basa, D. Corre, M. Ferrari, E. Hugot, K. Dohlen, Lab. d'Astrophysique de Marseille, Aix-Marseille Univ., CNRS (France); E. Pallier, J. Platzer, A. Klotz, J. L. Attéia, H. Valentin, R. Mathon, J. Boy, P. Ambert, J. F. Le Borgne, Institut de Recherche en Astrophysique et Planétologie, Univ. de Toulouse, CNRS (France); D. Dornic, C. Meessen, M. Ageron, Aix-Marseille Univ., Ctr. de Physique des Particules de Marseille, CNRS (France); O. Boulade, B. Cordier, D. Dubreuil, S. Ronayette, P. Gallais, Institut de recherche sur les lois fondamentales de l'Univers, CEA Saclay (France); A. Le Van Suu, P. E. Blanc, F. Dolon, Observatoire de Haute-Provence, Aix-Marseille Univ. (France)


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#### Low-cost primary mirror actuator for segmented telescopes: design and experimental validation

Paper 10700-130

Time: 6:00 PM - 8:00 PM

Author(s): Gert Witvoet, TNO (Netherlands), Technische Univ. Eindhoven (Netherlands); Arjo Bos, Technische Univ. Eindhoven (Netherlands); Jan Nijenhuis, TNO (Netherlands)


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#### Conceptual design proposed for the M2-f/5-Nasmyth support system of the Telescopio San Pedro Mártir project

Paper 10700-131

Time: 6:00 PM - 8:00 PM

Author(s): Gerardo Sierra Díaz, Joel Herrera Vázquez, Michael G. Richer, William H. Lee, Jesus Gonzales, Univ. Nacional Autónoma de México (Mexico); Rodrigo Dueñas Mendoza, Centro de Enseñanza Técnica Y Superior (Mexico)


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#### Daniel K. Inouye Solar Telescope design and construction of reconfigurable instrument support structure

Paper 10700-132

Time: 6:00 PM - 8:00 PM

Author(s): Richard T. Summers, National Solar Observatory (United States); Kathryn Shallcross, Hofstadter Analytical Services, LLC (United States); Jacob Winey, Front Range Engineering (United States)


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#### An end-to-end Fresnel propagation model for SPEED: PIAACMC implementation and performance

Paper 10700-133

Time: 6:00 PM - 8:00 PM

Author(s): Mathilde Beaulieu, Patrice Martinez, Lyu Abe, Lab. J.L. Lagrange (France); Olivier Guyon, The Univ. of Arizona (United States); Carole Gouvret, Julien Dejonghe, Oliver Preis, Lab. J.L. Lagrange (France)


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#### Tip-tilt performance test of FSMP for development of the GMT FSM

Paper 10700-134

Time: 6:00 PM - 8:00 PM

Author(s): Sanghyuk Kim, Chang-Hee Kim, Ueejeong Jeong, Sungho Lee, Korea Astronomy and Space Science Institute (Korea, Republic of); Won Gi Lee, Chan-Hee Lee, Institute for Advanced Engineering (Korea, Republic of); Il-Kwon Moon, Korea Research Institute of Standards and Science (Korea, Republic of); Jeong-Yeol Han, Yunjong Kim, Bong-Kon Moon, Korea Astronomy and Space Science Institute (Korea, Republic of); Myung K. Cho, National Optical Astronomy Observatory (United States); Byeong-Gon Park, Chan Park, Korea Astronomy and Space Science Institute (Korea, Republic of); Ho-Sang Kim, Institute for Advanced Engineering (Korea, Republic of); Paul Gardner, Robert J. Bernier, Frank Groark, Hugo Chiquito, GMTO Corp. (United States)


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#### Preliminary design and performance estimate of a prime focus camera for the 2.3m Thai National Telescope

Paper 10700-135

Time: 6:00 PM - 8:00 PM

Author(s): Weerapot Wanajaroen, National Astronomical Research Institute of Thailand (Thailand), Chiang Mai Univ. (Thailand); Christophe Buisset, National Astronomical Research Institute of Thailand (Thailand); Thierry Lépine, Lab. Hubert Curien (France), Institut d'Optique Graduate School (France); Suwicha Wannawichian, Chiang Mai Univ. (Thailand); Saran Poshyachinda, Boonrucksar Soonthornthum, National Astronomical Research Institute of Thailand (Thailand)


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#### Mechanical analysis on the influence of the bonding process on the ultra-thin mirror shell

Paper 10700-136

Time: 6:00 PM - 8:00 PM

Author(s): Heng Zuo, Kunxing Chen, Nanjing Institute of Astronomical Optics & Technology (China)


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#### LSST hardpoints final design, fabrication, and test

Paper 10700-137

Time: 6:00 PM - 8:00 PM

Author(s): Michael Booth, Andy Clements, Brian Johnson, LSST (United States)


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**TSPM f/5 Nasmyth configuration**

Paper 10700-138

Time: 6:00 PM - 8:00 PM


Author(s): Joel Herrera Vázquez, María H. Pedrayes, Gerardo Sierra Díaz, Michael G. Richer, J. Jesús González, William H. Lee Alardin, Carlos Tejada, Univ. Nacional Autónoma de México (Mexico)

[Add To My Schedule](#) **A pneumatic axial support prototype of the primary mirror of a 2m solar telescope**

Paper 10700-139

Time: 6:00 PM - 8:00 PM


Author(s): Dehua Yang, Changcheng Wu, Fei Fei, Nanjing Univ. of Aeronautics and Astronautics (China); Zhenyu Jin, Zhong Liu, Yunnan Astronomical Observatories, Chinese Academy of Sciences (China)

[Add To My Schedule](#) **LSST M1M3 figure actuator final design, fabrication, and test**

Paper 10700-140

Time: 6:00 PM - 8:00 PM


Author(s): Gary Muller, Ed Hileman, Felipe Daruich, LSST (United States); Michael Warner, Cerro Tololo Inter-American Observatory (Chile); Oliver Wiecha, Constanza Araujo Hauck, N G. Mills, Brian Johnson, Edward Stover, Michael Booth, LSST (United States); Ron Harris, National Optical Astronomy Observatory (United States); Douglas R. Neill, William Gressler, Andrew Serio, LSST (United States)

[Add To My Schedule](#) **In flange derotator design for the 4m DAG Telescope**

Paper 10700-141

Time: 6:00 PM - 8:00 PM


Author(s): Ali Cem Ünal, Isik Univ. (Turkey); Mirsad Sarajlic, Swiss Optics Systems (Switzerland); Laurent Jolissaint, Haute Ecole Spécialisée de Suisse Occidentale (Switzerland), HEIG-VD (Switzerland); Onur Keskin, Isik Üniv. (Turkey); Cahit Yesilyaprak, Atatürk Üniv. (Turkey); Jérémie Baudet, Haute Ecole Spécialisée de Suisse Occidentale (Switzerland)

[Add To My Schedule](#) **NPF: mirror development in Chile**

Paper 10700-142

Time: 6:00 PM - 8:00 PM


Author(s): Sebastián Zúñiga-Fernández, Pontificia Univ. Católica de Valparaíso (Chile), Iniciativa Científica Milenio (Chile); Amelia Bayo, Johan Olofsson, Univ. de Valparaíso (Chile), Iniciativa Científica Milenio (Chile); Leslie Pedrero, Claudio Lobos, Elías Rosas, Univ. Técnica Federico Santa María (Chile), Iniciativa Científica Milenio (Chile); Nicolas Soto, Nucleo Milenio de Formacion Planetaria (NPF) (Chile), Centro Científico Tecnológico de Valparaíso (CCTVal), Universidad Tecnica Federico Santa Maria (Chile); Matthias Schreiber, Univ. de Valparaíso (Chile), Iniciativa Científica Milenio (Chile); Pedro Escárate, Large Binocular Telescope Observatory (United States); Christian Romero, Univ. Técnica Federico Santa María (Chile), Iniciativa Científica Milenio (Chile); Hayk Hakobyan, Univ. Técnica Federico Santa María (Chile); Jorge Cuadra, Pontificia Univ. Católica de Chile (Chile), Iniciativa Científica Milenio (Chile); Cristopher Rozas, Nucleo Milenio de Formacion Planetaria (NPF) (Chile), Centro Científico Tecnológico de Valparaíso (CCTVal), Universidad Tecnica Federico Santa Maria (Chile); John D. Monnier, Univ. of Michigan (United States); Stefan Kraus, Univ. of Exeter (United Kingdom); Michael J. Ireland, The Australian National Univ. (Australia); Pedro Mardones, Nucleo Milenio de Formacion Planetaria (NPF) (Chile)

[Add To My Schedule](#) **Mechanical systems performance of the HET wide-field upgrade**

Paper 10700-143

Time: 6:00 PM - 8:00 PM

Author(s): John M. Good, Ron Leck, Jason Ramsey, Niv Drory, Gary J. Hill, James Fowler, Herman Kriel, The Univ. of Texas at Austin (United States); Martin Landriau, Lawrence Berkeley National Lab. (United States)

[Add To My Schedule](#) **The SOAR telescope atmospheric dispersion corrector**

Paper 10700-144

Time: 6:00 PM - 8:00 PM


Author(s): Cesar Briceno, Steve Heathcote, National Optical Astronomy Observatory (United States); Gerald Cecil, The Univ. of North Carolina at Chapel Hill (United States); Darragh O'Donoghue, South African Astronomical Observatory (South Africa); Roberto Tighe, National Optical Astronomy Observatory (United States); Patricio Schurter, GMTO Corp. (United States); Manuel Martínez, Rolando Cantarruti, Omar Estay, National Optical Astronomy Observatory (United States)

[Add To My Schedule](#) **The optical design of the six-meter CCAT-prime and Simons Observatory telescopes**

Paper 10700-145

Time: 6:00 PM - 8:00 PM

Author(s): Stephen C. Parshley, Michael D. Niemack, Cornell Univ. (United States); Richard Hills, Univ. of Cambridge (United Kingdom); Simon R. Dicker, University of Pennsylvania (United States); Rolando Dunner, Pontificia Universidad Católica de Chile (Chile); Jens Erler, Rheinische Friedrich-Wilhelms Universität Bonn (Germany); Patricio A. Gallardo, Cornell Univ. (United States); Jon E. Gudmundsson, Stockholm University (Sweden); Terry Herter, Brian J. Koopman, Cornell Univ. (United States); Michele Limon, University of Pennsylvania (United States); Frederick T. Matsuda, University of Tokyo (Japan); Philip Maukopf, Arizona State University (United States); Dominik A. Riechers, Gordon J. Stacey, Eve M. Vavagiakis, Cornell Univ. (United States)


[Add To My Schedule](#) **Design and prototype test of control systems for the fast-steering secondary mirror of GMT**

Paper 10700-146

Time: 6:00 PM - 8:00 PM

Author(s): Ueejeong Jeong, Chang-Hee Kim, Sungho Lee, Korea Astronomy and Space Science Institute (Korea, Republic of); Christoph Dribusch, Myung K. Cho, National Optical Astronomy Observatory (United States); Sanghyuk Kim, Bong-Kon Moon, Jeong-Yeol Han, Yunjong Kim, Chan Park, Byeong-Gon

Park, Korea Astronomy and Space Science Institute (Korea, Republic of); Il-Kwon Moon, Korea Research Institute of Standards and Science (Korea, Republic of); Paul Gardner, Robert J. Bernier, Frank Groark, Hugo Chiquito, GMTO Corp. (United States)


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#### **Preliminary design for the f/5 Nasmyth tertiary mirror configuration for the TSPM**

Paper 10700-147

Time: 6:00 PM - 8:00 PM

Author(s): María H. Pedrayes, Joel Herrera Vázquez, Erika Sohn, Fernando Parra, Michael G. Richer, J. Jesús González, William H. Lee, Univ. Nacional Autónoma de México (Mexico)


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#### **Getting ready for serial production of the segmented 39-meter ELT primary: status, challenges and strategies**

Paper 10700-148

Time: 6:00 PM - 8:00 PM

Author(s): Martin Dimmler, Pablo Barriga, Marc Cayrel, Frederic Derie, Andreas Foerster, Frederic Gonte, Juan-Carlos Gonzalez, Lieselotte Jochum, Nick Kornweibel, Samuel Leveque, Christian Lucuix, Lorenzo Pettazzi, European Southern Observatory (Germany)


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#### **Development status of the fast-steering secondary mirror of GMT**

Paper 10700-149

Time: 6:00 PM - 8:00 PM

Author(s): SungHo Lee, Jeong-Yeol Han, Ueejeong Jeong, Sanghyuk Kim, Bong-Kon Moon, Chang-Hee Kim, Yunjong Kim, Chan Park, Byeong-Gon Park, Korea Astronomy and Space Science Institute (Korea, Republic of); Myung K. Cho, National Optical Astronomy Observatory (United States); Christoph Dribusch, Youra Jun, Jieun Ryu, The Univ. of Arizona (United States); Gary Poczulp, Ming Liang, National Optical Astronomy Observatory (United States); Il Kwon Moon, Korea Research Institute of Standards and Science (Korea, Republic of); Chan-Hee Lee, Won Gi Lee, Ho-Sang Kim, Institute for Advanced Engineering (Korea, Republic of); Paul Gardner, Robert J. Bernier, Frank Groark, Hugo Chiquito, GMTO Corp. (United States)

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#### **GMT M2 positioner control system analysis**

Paper 10700-150

Time: 6:00 PM - 8:00 PM

Author(s): Peter M. Thompson, Systems Technology, Inc. (United States); Frank Groark, Robert J. Bernier, Frank Hassell, Paul Gardner, Hugo Chiquito, GMTO Corp. (United States)

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#### **Study on the spherical center position of FAST reflector**

**(Canceled)**

Paper 10700-152

Time: 6:00 PM - 8:00 PM


Author(s):

#### **Dynamic testing of primary mirror segment supports for the Extremely Large Telescope**

Paper 10700-127

Time: 4:20 PM - 4:40 PM

Author(s): Gert Witvoet, TNO (Netherlands), Technische Univ. Eindhoven (Netherlands); Jan Nijenhuis, Lukas Kramer, TNO (Netherlands)

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## **Posters: Optical Coatings**

Sunday 10 June 2018

6:00 PM - 8:00 PM

Location: CC Level 1, Exhibit Hall 2

Posters in this session may be displayed beginning at 10.00 on the designated day and will be available for extended viewing. The interactive poster session with authors in attendance will be Sunday evening from 6:00 to 8:00 PM. Authors should remove their posters at the end of the poster session. Posters left displayed will be considered unwanted and will be discarded.


Poster presentation guidelines are available [online](#).

#### **A UV-enhanced protected silver coating for the Gemini telescopes**

Paper 10700-154

Time: 6:00 PM - 8:00 PM

Author(s): Tom Schneider, Gemini Observatory (United States); Paul Stupik, GMTO Corp. (United States)


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#### **Re-aluminization of the 6.5m primary mirror at the MMT Observatory**

Paper 10700-155

Time: 6:00 PM - 8:00 PM

Author(s): William Goble, J. Duane Gibson, Dallan Porter, Ricardo Ortiz, MMT Observatory (United States)

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## **Posters: Pathfinders/Concepts for Future Telescopes**

Sunday 10 June 2018  
6:00 PM - 8:00 PM  
Location: CC Level 1, Exhibit Hall 2

Posters in this session may be displayed beginning at 10.00 on the designated day and will be available for extended viewing. The interactive poster session with authors in attendance will be Sunday evening from 6:00 to 8:00 PM. Authors should remove their posters at the end of the poster session. Posters left displayed will be considered unwanted and will be discarded.


Poster presentation guidelines are available [online](#).

#### Scientific performance analysis of the SYZ design vs. RC design for China's LOT

Paper 10700-156

Time: 6:00 PM - 8:00 PM

Author(s): Donglin Ma, Huazhong Univ. of Science and Technology (China); Zheng Cai, Univ. of California, Santa Cruz (United States), Lick Observatory (United States); Liangzhou Chen, Huazhong Univ. of Science and Technology (China)


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#### Design and performance estimate of a telescope dedicated to solar system planet imagery

Paper 10700-157

Time: 6:00 PM - 8:00 PM

Author(s): Weerapong Wanajaroen, Christophe Buisset, National Astronomical Research Institute of Thailand (Thailand); Thierry Lépine, Lab. Hubert Curien (France); Suwicha Wannawichian, Department of Physics and Materials, Faculty of Science, Chiang Mai University (Thailand); Saran Poshychinda, Boonrucksar Soonthornthum, National Astronomical Research Institute of Thailand (Thailand)


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#### The ExoLife Finder (ELF) Telescope: new adaptive optics and hybrid dynamic live-optical surfaces strategies

Paper 10700-158

Time: 6:00 PM - 8:00 PM

Author(s): Gil Moretto, Ctr. de Recherche Astronomique de Lyon, Ctr. National de la Recherche Scientifique (France), PLANETS Foundation (United States); Jeff R. Kuhn, Institute for Astronomy, Univ. of Hawai'i (United States), PLANETS Foundation (United States); Jean-Fabien Capsal, David Audigier, Kritsadi Thetpraphi, Institut National des Sciences Appliquées de Lyon (France); Maud Langlois, Ctr. de Recherche Astronomique de Lyon, Ctr. National de la Recherche Scientifique (France), PLANETS Foundation (France); Michel Tallon, Ctr. de Recherche Astronomique de Lyon (France); Mike Gedig, Dynamic Structures Ltd. (Canada); Svetlana V. Berdyugina, Kiepenheuer-Institut für Sonnenphysik (Germany), PLANETS Foundation (United States); David Halliday, Dynamic Structures Ltd. (Canada)


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#### Opening the dynamic infrared sky

Paper 10700-159

Time: 6:00 PM - 8:00 PM

Author(s): Jamie Soon, Anna Moore, Australian National Univ. (Australia); Mansi M. Kasliwal, Ryan M. Lau, Kishalay De, Caltech (United States); Tony D. Truong, Australian National Univ. (Australia); Mike Jones, Precision Optics of Azle (United States); Eran Ofek, Weizmann Institute of Science (Israel); Roger Smith, Caltech Optical Observatories (United States); Valery Terebizh, Crimean Astrophysical Observatory (Ukraine); Dan McKenna, David Hale, Alex Delacroix, Caltech Optical Observatories (United States); Scott M. Adams, Jacob E. Jencson, Caltech (United States); Michael Ashley, University of New South Wales (Australia); Jill A. Burnham, Caltech (United States); Jennifer L. Sokoloski, Columbia University (United States); Joss Bland-Hawthorn, University of Sydney (Australia); Ken Freeman, Australian National Univ. (Australia); Orsola De Marco, Macquarie University (Australia); Jeff Cooke, Swinburne University of Technology (Australia); Phil Bland, Curtin University (Australia); Stuart Ryder, Australian Astronomical Observatory (Australia); Roberto Soria, University of the Chinese Academy of Sciences (China); Jarek Antoszewski, University of Western Australia (Australia); Alexander Heger, Monash University (Australia); Lee Spitler, Macquarie University (Australia), Australian Astronomical Observatory (Australia); Robert Simcoe, Massachusetts Institute of Technology (United States)


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#### A concept for a new spectroscopic facility

Paper 10700-160

Time: 6:00 PM - 8:00 PM

Author(s): Luca Pasquini, Bernard Delabre, Richard Ellis, Juan Antonio Marrero, Lluís Cavaller Marqués, Tim de Zeeuw, European Southern Observatory (Germany)


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#### World View Enterprises altitude controlled balloons: a new stratospheric platform for persistent Earth and space imaging campaigns

Paper 10700-162

Time: 6:00 PM - 8:00 PM

Author(s): Alexander D. Miller, Arizona State Univ. (United States); Iain Beveridge, Andrew Antonio, World View Enterprises (United States); Tom Pirrone, World View Enterprises, Inc. (United States)


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#### An inexpensive turnkey 6.5m observatory with customizing options

Paper 10700-163

Time: 6:00 PM - 8:00 PM

Author(s): Jeffrey Kingsley, Roger Angel, Warren Davison, The Univ. of Arizona (United States); Dan Neff, José Teran, M3 Engineering & Technology Corp. (United States); William Assenmacher, Kyle Peyton, CAID Industries, Inc. (United States); Hubert M. Martin, Chang Jin Oh, Dae Wook Kim, Eric Pearce, Mario Rascon, Thomas Connors, Daniel Alfred, Buell Jannuzzi, Dennis Zaritsky, Eric Christensen, Jared Males, Phil Hinz, Robert Seaman, Kerry Gonzales, The Univ. of Arizona (United States); David Adriaanse, M3 Engineering & Technology Corp. (United States)


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#### The Exo-Life Finder (ELF) telescope: new strategies for exoplanet direct detection, biosignatures and technosignatures

Paper 10700-164

Time: 6:00 PM - 8:00 PM

Author(s): Svetlana V. Berdyugina, Kiepenheuer-Institut für Sonnenphysik (Germany), PLANETS Foundation (United States); Jeff R. Kuhn, Institute for Astronomy, Univ. of Hawai'i (United States), PLANETS Foundation (United States); Maud Langlois, Ctr. de Recherche Astronomique de Lyon, Ctr. National de la Recherche Scientifique (France), PLANETS Foundation (United States), École Normale Supérieure de Lyon (France); Gil Moretto, Ctr. de Recherche Astronomique de Lyon, Ctr. National de la Recherche Scientifique (France), PLANETS Foundation (United States), École Normale Supérieure de Lyon (France); Joshua Krissansen-Totton, Univ. of Washington (United States); John Lee Grenfell, Deutsches Zentrum für Luft- und Raumfahrt e.V. (Germany); David Catling, Univ. of Washington (United States); Tina Santl-Temkiv, Kai Finster, Aarhus Univ. (Denmark); Jill Tarter, Seth Shostak, Franck Marchis, SETI Institute (United States); Henrik Hargitai, NASA Ames Research Ctr. (United States); Daniel Apai, The Univ. of Arizona (United States)


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#### Development of PLANETS telescope and visible-infrared spectrometer for monitoring of planetary and exoplanetary atmospheres

Paper 10700-165

Time: 6:00 PM - 8:00 PM

Author(s): Takeshi Sakanoi, Tohoku Univ. (Japan), PLANETS Foundation (United States); Jeffrey R. Kuhn, Institute for Astronomy, Univ. of Hawai'i (United States), PLANETS Foundation (United States); Svetlana V. Berdyugina, Kiepenheuer-Institut für Sonnenphysik (Germany), PLANETS Foundation (United States); Marcelo Emilio, Univ. Estadual de Ponta Grossa (Brazil), PLANETS Foundation (United States); Masato Kagitani, Tohoku Univ. (Japan); Yasuhiro Hirahara, Nagoya University (Japan); Hiromu Nakagawa, Yasumasa Kasaba, Takahiro Obara, Shoichi Okano, Tohoku Univ. (Japan); Isabelle F. Scholl, Institute for Astronomy, Univ. of Hawai'i (United States); Andrei Berdyugin, Vilppu Pirola, Univ. of Turku (Finland)

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#### Next-generation small CMB telescopes

Paper 10700-167

Time: 6:00 PM - 8:00 PM

Author(s): Keith Thompson, Stanford Univ. (United States), Kavli Institute for Particle Astrophysics & Cosmology (United States); Chao-Lin Kuo, Ki Won Yoon, Zeeshan Ahmed, Stanford Univ. (United States), SLAC National Accelerator Lab. (United States), Kavli Institute for Particle Astrophysics & Cosmology (United States)

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#### The square kilometre array mid SPFRx dish receiver/digitizer qualification model (Canceled)

Paper 10700-168

Time: 6:00 PM - 8:00 PM


Author(s):

#### Towards a European Stratospheric Balloon Observatory: the ESBO design study

Paper 10700-169

Time: 6:00 PM - 8:00 PM

Author(s): Philipp Maier, Jürgen Wolf, Thomas Keilig, Alfred Krabbe, University of Stuttgart (Germany); Rene Duffard, Jose Luis Ortiz, Instituto de Astrofísica de Andalucía - CSIC (Spain); Sabine Klinkner, Michael Lengowski, University of Stuttgart (Germany); Thomas Müller, Max-Planck-Institut für extraterrestrische Physik (Germany); Christian Lockowandt, Christian Krokstedt, Swedish Space Corporation (Sweden); Norbert Kappelman, Beate Stelzer, Klaus Werner, Universität Tübingen (Germany); Stephan Geier, Universität Tübingen (Germany), Universität Potsdam (Germany); Christoph Kalkuhl, Thomas Rauch, Thomas Schanz, Jürgen Barnstedt, Lauro Conti, Lars Hanke, Universität Tübingen (Germany)

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## Posters: Project Reviews: Early Operations

Sunday 10 June 2018

6:00 PM - 8:00 PM

Location: CC Level 1, Exhibit Hall 2

Posters in this session may be displayed beginning at 10.00 on the designated day and will be available for extended viewing. The interactive poster session with authors in attendance will be Sunday evening from 6:00 to 8:00 PM. Authors should remove their posters at the end of the poster session. Posters left displayed will be considered unwanted and will be discarded.


Poster presentation guidelines are available [online](#).

#### LOCNES: low cost NIR extended solar telescope

Paper 10700-170

Time: 6:00 PM - 8:00 PM

Author(s): Riccardo U. Claudi, INAF - Osservatorio Astronomico di Padova (Italy); Adriano Ghedina, Fundación Galileo Galilei - INAF (Spain); Emanuele Pace, Lorenzo Gallorini, Univ. degli Studi di Firenze (Italy); Anna Maria Di Giorgio, Scigè John Liu, INAF - Istituto di Astrofisica e Planetologia Spaziali - IAPS (Italy); Andrea Tozzi, INAF - Osservatorio Astrofisico di Arcetri (Italy); Antonino F. Lanza, INAF - Osservatorio Astrofisico di Catania (Italy); Giuseppina Micela, INAF - Osservatorio Astronomico di Palermo Giuseppe S. Vaiana (Italy); Emilio Molinari, Fundación Galileo Galilei - INAF (Spain); Dave Phillips, Harvard-Smithsonian Ctr. for Astrophysics (United States); Giovanni Tripodo, Università degli Studi di Palermo, Scuola delle Scienze di base e applicate, Dipartimento di Fisica (Italy)


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#### Status and performance of Lowell Observatory's Discovery Channel telescope and its growing suite of instruments

Paper 10700-172

Time: 6:00 PM - 8:00 PM

Author(s): Stephen E. Levine, William DeGroot, Thomas Bida, Edward Dunham, George Jacoby, Lowell Observatory (United States)

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## Posters: Robotic Telescopes and Arrays

Sunday 10 June 2018  
6:00 PM - 8:00 PM  
Location: CC Level 1, Exhibit Hall 2

Posters in this session may be displayed beginning at 10.00 on the designated day and will be available for extended viewing. The interactive poster session with authors in attendance will be Sunday evening from 6:00 to 8:00 PM. Authors should remove their posters at the end of the poster session. Posters left displayed will be considered unwanted and will be discarded.


Poster presentation guidelines are available [online](#).

#### **The Huntsman telephoto array: a low surface brightness imaging system based on COTS components**

Paper 10700-173

Time: 6:00 PM - 8:00 PM

Author(s): Anthony J. Horton, Australian Astronomical Observatory (Australia); Lee Spitler, Wilfred T. Gee, Macquarie Univ. (Australia); Steve Lee, Australian Astronomical Observatory (Australia)


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#### **Installation and operation of the Beta Pictoris b ring project bRing**

Paper 10700-175

Time: 6:00 PM - 8:00 PM

Author(s): Remko Stuik, Leiden Observatory, Leiden Univ. (Netherlands), Netherlands Research School for Astronomy (Netherlands); John I. Bailey, Patrick Dorval, Geert Jan Talens, Leiden Observatory, Leiden Univ. (Netherlands); Samuel N. Mellon, Univ. of Rochester (United States); Blaine Lomberg, Steven M. Crawford, South African Astronomical Observatory (South Africa); Eric Mamajek, Jet Propulsion Lab., Caltech (United States); Matt Kenworthy, Leiden Univ. (Netherlands); Peter Verwayen, Michael J. Ireland, The Australian National Univ. (Australia)


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#### **The MeerLICHT telescope**

Paper 10700-176

Time: 6:00 PM - 8:00 PM

Author(s): Paul J. Groot, Steven Bloemen, Radboud Univ. Nijmegen (Netherlands); Patrick Woudt, Univ. of Cape Town (South Africa); Rik ter Horst, Dirk Lesman, Ramón Navarro, NOVA Optical IR Instrumentation Group (Netherlands); Arno Engels, Roy Bakker, Radboud Univ. Nijmegen (Netherlands); Kerry Paterson, Univ. of Cape Town (South Africa)


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#### **Two years of exoplanet transits and transients with the DEDicated MONitor of EXotransits and Transients (DEMONEXT) Robotic telescope**

Paper 10700-177

Time: 6:00 PM - 8:00 PM

Author(s): Steven Villanueva, B. Scott Gaudi, Richard Pogge, The Ohio State Univ. (United States); Jason Eastman, Harvard-Smithsonian Ctr. for Astrophysics (United States); Keivan Stassun, Vanderbilt Univ. (United States); Mark Trueblood, Pat Trueblood, Winer Observatory (United States)


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#### **The Evryscopes: high cadence observations of the entire sky simultaneously**

Paper 10700-178

Time: 6:00 PM - 8:00 PM

Author(s): Nicholas M. Law, Jeff Ratzloff, Hank Corbett, Octavi Fors, Ward Howard, The Univ. of North Carolina at Chapel Hill (United States)


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#### **Status of the Transneptunian Automated Occultation Survey (TAOS II)**

Paper 10700-179

Time: 6:00 PM - 8:00 PM

Author(s): Matthew J. Lehner, Shiang-Yu Wang, Institute of Astronomy and Astrophysics - Academia Sinica (Taiwan); Mauricio Reyes-Ruiz, Observatorio Astronómico Nacional (Mexico); Zhi-Wei Zhang, Institute of Astronomy and Astrophysics - Academia Sinica (Taiwan); Liliana Figueroa, Observatorio Astronómico Nacional (Mexico); Chung-Kai Hunag, National Central Univ. (Taiwan); Wei-Ling Yen, Institute of Astronomy and Astrophysics - Academia Sinica (Taiwan); Charles Alcock, Harvard-Smithsonian Ctr. for Astrophysics (United States); Fernando I. Alvarez Santana, Joel H. Castro-Chacón, Univ. Nacional Autónoma de México (Mexico); Wen-Ping Chen, National Central Univ. (Taiwan); You-Hua Chu, Kem H. Cook, Institute of Astronomy and Astrophysics - Academia Sinica (Taiwan); John C. Geary, Harvard-Smithsonian Ctr. for Astrophysics (United States); Benjamín Hernández, Univ. Nacional Autónoma de México (Mexico); Jennifer E. Karr, Institute of Astronomy and Astrophysics - Academia Sinica (Taiwan); JJ Kavelaars, NRC - Herzberg Astronomy & Astrophysics (Canada); Timothy J. Norton, Andrew Szentgyorgyi, Harvard-Smithsonian Ctr. for Astrophysics (United States)


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#### **Research on the fault diagnosis and self-healing technology of unattended Antarctic telescope**

Paper 10700-180

Time: 6:00 PM - 8:00 PM

Author(s): Yun Li, Shihai Yang, Nanjing Institute of Astronomical Optics & Technology (China)

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#### **Exploring the transient sky with COLIBRI**

**(Canceled)**

Paper 10700-182

Time: 6:00 PM - 8:00 PM


Author(s):

#### **BMK10k: a ground support telescope for the Plato2.0 Mission**

Paper 10700-183

Time: 6:00 PM - 8:00 PM

Author(s): Jörg Weingrill, Thomas Granzer, Klaus G. Strassmeier, Leibniz-Institut für Astrophysik Potsdam (Germany)

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## Posters: Site Characterization, Testing and Development

Sunday 10 June 2018

6:00 PM - 8:00 PM

Location: CC Level 1, Exhibit Hall 2

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Poster presentation guidelines are available [online](#).

### Iranian National Observatory: overview of site monitoring

Paper 10700-184

Time: 6:00 PM - 8:00 PM

Author(s): Habib G. Khosroshahi, Alireza Molaeinezhad, Arash Danesh, Behnam Javanmardi, Mahyar Taghavinamin, Alireza Behnam, Alaeddin Mirhoseini, Sohrab Sheikhani, Abolfazl Jafarzadehpour, Iranian National Observatory (Iran, Islamic Republic of)


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### Near infrared sky brightness measurement using an InGaAs detector

Paper 10700-185

Time: 6:00 PM - 8:00 PM

Author(s): Yi-hao Zhang, Qi-jie Tang, Shu-cheng Dong, Jin-ting Chen, Feng-xin Jiang, Zhi-yue Wang, Ya-qi Chen, Ming-hao Jia, Jie Chen, Hong-fei Zhang, Qing-feng Zhu, Univ. of Science and Technology of China (China); Peng Jiang, Tuo Ji, Shao-hua Zhang, Polar Research Institute of China (China); Yong-qiang Yao, Yun-he Zhou, National Astronomical Observatories, Chinese Academy of Sciences (China); Hong-shua Wang, National Astronomical Observatories (China); Peng Tang, National Astronomical Observatories, Chinese Academy of Sciences (China); Jian Wang, Univ. of Science and Technology of China (China)


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### An automatic DIMM for Dome A, Antarctica

Paper 10700-186

Time: 6:00 PM - 8:00 PM

Author(s): Bin Ma, Keliang Hu, Yi Hu, Wei Wang, National Astronomical Observatories, Chinese Academy of Sciences (China); Zhaohui Shang, Tianjin Normal Univ. (China), National Astronomical Observatories, Chinese Academy of Sciences (China); Yongjiang Wang, Xu Yang, National Astronomical Observatories (China)


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### Alternate site selection and development for the Thirty Meter Telescope at Observatorio del Roque de los Muchachos, La Palma, Spain

Paper 10700-187

Time: 6:00 PM - 8:00 PM

Author(s): Jose Teran, M3 Engineering &amp; Technology Corp. (United States); Gary Sanders, Thirty Meter Telescope (United States); Grecia Falcon, David Adriaanse, M3 Engineering &amp; Technology Corp. (United States); Paul Gillett, Christophe Dumas, Thirty Meter Telescope (United States)


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### Combining $C_n^2$ models to simulate and forecast the optical turbulence in Armazones and Paranal

Paper 10700-189

Time: 6:00 PM - 8:00 PM

Author(s): Omar Cuevas, Michel Curé, Univ. de Valparaíso (Chile); Pedro Escárdate, Large Binocular Telescope Observatory (United States), Iniciativa Científica Milenio (Chile)


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### Study of the local optical turbulence in a 1.5m telescope dome with the INTENSE instrument

Paper 10700-190

Time: 6:00 PM - 8:00 PM

Author(s): Julien Chabé, Observatoire de la Côte d'Azur, Univ. Côte d'Azur (France), Ctr. National de la Recherche Scientifique (France), Institut de Recherche pour le Développement (France); Thibault Giauffret, Lab. J.L. Lagrange, Observatoire de la Côte d'Azur (France); Hà Phung Dhuy, Aziz Ziad, Éric Aristidi, Malak Ben Rahhal, Lab. J.L. Lagrange (France); Etienne Samain, Univ. Côte d'Azur (France); Yan Fantéi-Caujolle, Lab. J.L. Lagrange (France)


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### Kunlun cloud and aurora monitor

Paper 10700-191

Time: 6:00 PM - 8:00 PM

Author(s): Zhaohui Shang, National Astronomical Observatories, Chinese Academy of Sciences (China), Tianjin Normal Univ. (China); Keliang Hu, Xu Yang, Yi Hu, Bin Ma, Wei Wang, National Astronomical Observatories, Chinese Academy of Sciences (China)

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### Iranian National Observatory project: seeing measurements at mount Gargash


Paper 10700-193

Time: 6:00 PM - 8:00 PM

Author(s): Arash Danesh, Institute for Research in Fundamental Sciences (Iran, Islamic Republic of), Iranian National Observatory (Iran, Islamic Republic of),



Univ. of Zanjan (Iran, Islamic Republic of); Behnam Javanmardi, Institute for Research in Fundamental Sciences (Iran, Islamic Republic of); Habib Khosroshahi, Institute for Research in Fundamental Sciences (Iran, Islamic Republic of); Iranian National Observatory (Iran, Islamic Republic of); Alireza Molaeinezhad, Institute for Research in Fundamental Sciences (Iran, Islamic Republic of); Iranian National Observatory (Indonesia); Yousefali Abedini, Univ. of Zanjan (Iran, Islamic Republic of); Hamed Altafi, Mahyar Taghavinamin, Sohrab Sheikhani, Institute for Research in Fundamental Sciences (Iran, Islamic Republic of); Iranian National Observatory (Iran, Islamic Republic of)

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#### Study of new astronomical sites in the middle atlas of Morocco



Paper 10700-194

Time: 6:00 PM - 8:00 PM

Author(s): El Arbi Siher, Zineb Ihsane, Abderahim Salhi, Univ. Sultan Moulay Slimane (Morocco)


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#### Site characterisation at Mount Stromlo: results with a single-detector stereo-SCIDAR

Paper 10700-195

Time: 6:00 PM - 8:00 PM

Author(s): Visa A. Korkiakoski, Doris Grosse, Elliott Thorn, Michael Copeland, The Australian National Univ. (Australia), Space Environment Research Ctr. (SERC) (Australia); Francis Bennet, The Australian National Univ. (Australia); James Osborn, Ctr. for Advanced Instrumentation, Durham Univ. (United Kingdom); François Rigaut, Céline d'Orgeville, The Australian National Univ. (Australia), Space Environment Research Ctr. (SERC) (Australia); Marcus Lingham, Ian Price, The Australian National Univ. (Australia)


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#### Seeing statistics and characteristics at the MMT Observatory 2003–2018

Paper 10700-196

Time: 6:00 PM - 8:00 PM

Author(s): Timothy E. Pickering, MMT Observatory (United States)


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#### DAG-MAM: meteorological and astronomical data monitoring for DAG (Eastern Anatolia Observatory)

Paper 10700-197

Time: 6:00 PM - 8:00 PM

Author(s): Cahit Yeşilyaprak, Cihan Tuğrul Tezcan, Mohammad Shameoni Niaei, İbrahim Öztürk, Yavuz Güney, Emre Doğan, Atatürk Üniv. (Turkey)


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#### Characterization of atmospheric turbulence for the Large Synoptic Survey Telescope

Paper 10700-198

Time: 6:00 PM - 8:00 PM

Author(s): Claire-Alice Hébert, Bruce Macintosh, Patricia Burchat, Stanford Univ. (United States)


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#### Recent developments at the OAN-SPM

Paper 10700-199

Time: 6:00 PM - 8:00 PM

Author(s): J. Jesús González, Mauricio Reyes Ruíz, William H. Lee, Alan M. Watson, Elena Jiménez-Bailón, Yilen Gómez Maqueo Chew, Laurence Sabin, David Hiriart, Michael G. Richer, Instituto de Astronomía, Univ. Nacional Autónoma de México (Mexico); Fabián Rosales-Ortega, Instituto Nacional de Astrofísica, Óptica y Electrónica (Mexico)

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## Posters: Telescope Control

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Sunday 10 June 2018

6:00 PM - 8:00 PM

Location: CC Level 1, Exhibit Hall 2

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#### SOAR telescope mount control unit upgrade project: introduction and status report

Paper 10700-200

Time: 6:00 PM - 8:00 PM

Author(s): Braulio Cancino, Michael Warner, Manuel Martínez, Rolando Cantarutti, Peter Moore, Norman Díaz, Omar Estay, Guillermo Dubó, Víctor Aguirre, Rodrigo Leiva, Cerro Tololo Inter-American Observatory (Chile); Jay Elias, SOAR Telescope (Chile); Cesar Briceño, Cerro Tololo Inter-American Observatory (Chile)


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#### Introduction to measurement and control system of FAST active reflector

Paper 10700-201

Time: 6:00 PM - 8:00 PM

Author(s): Xinyi Li, Lichun Zhu, Zhiwei Zhang, National Astronomical Observatories, Chinese Academy of Sciences (China)


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**Implementation of W. M. Keck Observatory's telescope control system upgrade**

Paper 10700-202

Time: 6:00 PM - 8:00 PM


Author(s): Tomas Krasuski, W. M. Keck Observatory (United States); Peter M. Thompson, Systems Technology, Inc. (United States); Benjamin McCarney, Shui Kwok, Ean James, Kevin T. Tsubota, Mike Pollard, Kevin McCann, W. M. Keck Observatory (United States)

[Add To My Schedule](#) **Optimization of the Keck's new two path shaper and feedforward control architecture**

Paper 10700-203

Time: 6:00 PM - 8:00 PM


Author(s): Peter M. Thompson, Systems Technology, Inc. (United States); Tomas Krasuski, Benjamin McCarney, Kevin T. Tsubota, Shui Kwok, W. M. Keck Observatory (United States)

[Add To My Schedule](#) **Application of intelligent fuzzy PID control algorithm in large astronomical telescope tracking system**

Paper 10700-204

Time: 6:00 PM - 8:00 PM


Author(s): Xiajie Zhang, Changzhi Ren, Nanjing Institute of Astronomical Optics &amp; Technology (China)

[Add To My Schedule](#) **Astronomical telescope low speed control system based on segment permanent magnet support**

Paper 10700-205

Time: 6:00 PM - 8:00 PM


Author(s): Jin Xu, Guomin Wang, Zhiyong Zhang, Nanjing Institute of Astronomical Optics &amp; Technology (China)

[Add To My Schedule](#) **Modular electronics design for small-size telescope and dome control**

Paper 10700-206

Time: 6:00 PM - 8:00 PM

Author(s): László Mészáros, András Pál, Konkoly Observatory (Hungary)

[Add To My Schedule](#) **Control and monitoring system for the Greenland Telescope: computers, network and software**

Paper 10700-207

Time: 6:00 PM - 8:00 PM


Author(s): Hiroaki Nishioka, Chih-Wei L. Huang, Institute of Astronomy and Astrophysics - Academia Sinica (Taiwan); Patel A. Patel, Harvard-Smithsonian Ctr. for Astrophysics (United States); Derek Y. Kubo, Ranjani Srinivasan, Institute of Astronomy and Astrophysics - Academia Sinica (United States); Chih-Chiang J. Han, Chen-Yu Yu, Homin Jiang, Lupin C. C. Lin, Zheng Meyer-Zhao, Pierre Martin-Cocher, Satoki Matsushita, Keiichi Asada, Makoto Inoue, Shoko Koyama, Institute of Astronomy and Astrophysics - Academia Sinica (Taiwan); Craig A. Walther, Dan Bintley, East Asian Observatory (United States); Kuan-Yu Liu, Institute of Astronomy and Astrophysics - Academia Sinica (Taiwan); Ryan M. Berthold, Tim Chuter, Per Friberg, East Asian Observatory (United States); Geoffrey C. Bower, Institute of Astronomy and Astrophysics - Academia Sinica (United States); Shu-Hao Chang, Ming-Tang Chen, Institute of Astronomy and Astrophysics - Academia Sinica (Taiwan); Dempsey Jessica, East Asian Observatory (United States); Sheperd S. Doeleman, Harvard-Smithsonian Ctr. for Astrophysics (United States); Yau-De Huang, Paul T. P. Ho, Jun-Yi Koay, Patrick M. Koch, Institute of Astronomy and Astrophysics - Academia Sinica (Taiwan); Ching-Tang Liu, National Chung-Shan Institute of Science and Technology (Taiwan); Wen-Ping Lo, Masanori Nakamura, Institute of Astronomy and Astrophysics - Academia Sinica (Taiwan); Timothy J. Norton, Harvard-Smithsonian Ctr. for Astrophysics (United States); George U. Nystrom, Oshiro Peter, Ta-Shun Wei, Institute of Astronomy and Astrophysics - Academia Sinica (Taiwan)

[Add To My Schedule](#) **Design of an innovative observer based feedback enabling faster telescope control in SOFIA**

Paper 10700-208

Time: 6:00 PM - 8:00 PM


Author(s): Friederike M. Graf, Deutsches SOFIA Institut, Univ. Stuttgart (Germany), NASA Ames Research Ctr. (United States); Johannes Reinhart, Deutsches SOFIA Institut (Germany); Andreas Reinacher, Deutsches SOFIA Institut (Germany), NASA Armstrong Flight Research Center, MS DAOF S231 (United States); Stefanos Fasoulas, Institute of Space Systems, University of Stuttgart (Germany)

[Add To My Schedule](#) **Performance of the second Antarctic Survey Telescope at Dome A**

Paper 10700-210

Time: 6:00 PM - 8:00 PM


Author(s): Xiaoyan Li, Shihai Yang, Fujia Du, Zhengyang Li, Xiangyan Yuan, Bozhong Gu, Nanjing Institute of Astronomical Optics &amp; Technology (China)

[Add To My Schedule](#) **The operation control and data acquisition of the actuators of FAST main reflector**

Paper 10700-212

Time: 6:00 PM - 8:00 PM

Author(s): Yong Wang, Qi-ming Wang, National Astronomical Observatories, Chinese Academy of Sciences (China); Lichun ZHU, National Astronomical Observatories (China); MingChang Wu, Peng Jiang, Hengqian Gan, Zhiwei Zhang, Lei Yang, National Astronomical Observatories, Chinese Academy of Sciences (China)

[Add To My Schedule](#) **Auto-tuned thermal control on stratospheric balloon experiments**

Paper 10700-214

Time: 6:00 PM - 8:00 PM

Author(s): Susan Redmond, Univ. of Toronto (Canada); Steven Benton, Princeton Univ. (United States); Anthony M. Brown, Paul Clark, Durham Univ. (United Kingdom); Christopher Damaren, Univ. of Toronto (Canada); Tim Eifler, Jet Propulsion Lab. (United States); Aurelien Fraise, Princeton Univ. (United States); Mathew Galloway, John Hartley, Univ. of Toronto (Canada); Mathilde Jauzac, Durham Univ. (United Kingdom); William Jones, Lun Li, Thuy Vy Luu, Princeton

Univ. (United States); Richard Massey, Durham Univ. (United Kingdom); Jacqueline McCleary, Jet Propulsion Lab. (United States); Calvin Netterfield, Univ. of Toronto (Canada); Jason Rhodes, Jet Propulsion Lab. (United States); Javier Romualdez, Univ. of Toronto (Canada); Jürgen Scholl, Sut-leng Tam, Durham Univ. (United Kingdom)

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## Posters: Telescope Structures

Sunday 10 June 2018

6:00 PM - 8:00 PM

Location: CC Level 1, Exhibit Hall 2

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### Mt ABU 2.5m Telescope: design and fabrication

Paper 10700-215

Time: 6:00 PM - 8:00 PM

Author(s): Olivier Pirnay, Grégory Lousberg, Audrey Lanotte, Eric Gabriel, Jean-Marc Tortolani, Nicolas Fontana, Sabrina Orban, AMOS Ltd. (Belgium)


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### An improved secondary reflector for DVA-2 radio telescope: a case study on application of structural optimization technique

Paper 10700-216

Time: 6:00 PM - 8:00 PM

Author(s): Mohammad N. Islam, National Research Council Canada (Canada); Gordon E. Lacy, NRC - Herzberg Astronomy & Astrophysics (Canada)


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### Mechanical preliminary design of the 6.5-meter Telescopio San Pedro Mártir (TSPM)

Paper 10700-217

Time: 6:00 PM - 8:00 PM

Author(s): Jorge A. Uribe, Carlos Tovar, Rogelio Manuel, Saul Rubio, Carlos Ortega, Germán González, Berenice Rodriguez, Ctr. de Ingeniería y Desarrollo Industrial (Mexico); William H. Lee, Michael G. Richer, J. Jesús González, Univ. Nacional Autónoma de México (Mexico); César Martínez, Vicente Bringas, Antonio Estrada, Ctr. de Ingeniería y Desarrollo Industrial (Mexico)


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### The method to realize the performance of FAST reflector unit

Paper 10700-218

Time: 6:00 PM - 8:00 PM

Author(s): BaoQing Zhao, National Astronomical Observatories, Chinese Academy of Sciences (China); QiMing Wang, National Astronomical Observatories (China); BenNing Song, National Astronomical Observatories, Chinese Academy of Sciences (China)


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### ASTRI SST-2M: the design evolution from the prototype to the array telescope

Paper 10700-219

Time: 6:00 PM - 8:00 PM

Author(s): Gianpietro Marchiori, Andrea Busatta, Enrico Marcuzzi, Cristiana Manfrin, EIE Group s.r.l. (Italy); Ivan Folla, Galbiati Group (Italy); Giovanni Pareschi, INAF - Osservatorio Astronomico di Brera (Italy); Salvo Scuderi, INAF - Osservatorio Astrofisico di Catania (Italy); Enrico Giro, INAF - Osservatorio Astronomico di Padova (Italy); Rodolfo Canestrari, INAF - Osservatorio Astronomico di Brera (Italy); Gino Tosti, INAF - Osservatorio Astronomico di Brera (Italy); Elisa Antolini, Univ. degli Studi di Perugia (Italy); Giorgia Sironi, INAF - Osservatorio Astronomico di Brera (Italy); Enrico Cascone, INAF - Osservatorio Astronomico di Capodimonte (Italy)


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### CCAT-prime: a novel telescope for sub-millimeter astronomy

Paper 10700-220

Time: 6:00 PM - 8:00 PM

Author(s): Stephen C. Parshley, Cornell Univ. (United States); Jörg Kronshage, Vertex Antennentechnik GmbH (Germany); James Blair, Terry Herter, Cornell Univ. (United States); Mike Nolta, University of Toronto (Canada); Gordon J. Stacey, Cornell Univ. (United States); Andrew Bazarko, Princeton University (United States); Frank Bertoldi, Rheinische Friedrich-Wilhelms Universität Bonn (Germany); Ricardo Bustos, Universidad Católica de la Santísima Concepción (Chile); Donald B. Campbell, Cornell Univ. (United States); Scott Chapman, Dalhousie University (Canada); Nicolas Cothard, Cornell Univ. (United States); Mark Devlin, University of Pennsylvania (United States); Jens Erler, Rheinische Friedrich-Wilhelms Universität Bonn (Germany); Michel Fich, University of Waterloo (Canada); Patricio A. Gallardo, Riccardo Giovanelli, Cornell Univ. (United States); Urs Graf, Universität zu Köln (Germany); Scott Gramke, Vertex Antennentechnik GmbH (Germany); Martha P. Haynes, Cornell Univ. (United States); Richard Hills, University of Cambridge (United Kingdom); Michele Limon, University of Pennsylvania (United States); Jeffrey G. Mangum, National Radio Astronomy Observatory (United States); Jeff McMahon, University of Michigan (United States); Michael D. Niemack, Thomas Nikola, Cornell Univ. (United States); Markus Omlor, Vertex Antennentechnik GmbH (Germany); Dominik A. Riechers, Cornell Univ. (United States); Karl Steeger, Vertex Antennentechnik GmbH (Germany); Juergen Stutzki, Universität zu Köln (Germany); Eve M. Vavagiakis, Cornell Univ. (United States)

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### Telescope pier seismic isolation for the Giant Magellan Telescope

Paper 10700-222

Time: 6:00 PM - 8:00 PM

Author(s): Eric Manuel, M3 Engineering & Technology Corp. (United States); Michael C. Constantinou, Univ. at Buffalo, The State Univ. of New York (United States)

States); Eric Grigel, M3 Engineering & Technology Corp. (United States); Bruce C. Bigelow, GMTO Corp. (United States); José Teran, M3 Engineering & Technology Corp. (United States); Bahram Talison, GMTO Corp. (United States)

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#### From the Etna volcano to the Chilean Andes: ASTRI end-to-end telescopes for the Cherenkov Telescope Array

Paper 10700-223

Time: 6:00 PM - 8:00 PM

Author(s): Salvo Scuderì, INAF - Osservatorio Astrofisico di Arcetri (Italy)

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#### The SST-1M telescope for the Cherenkov array: end-to-end commissioning and first observations

(Canceled)

Paper 10700-224

Time: 6:00 PM - 8:00 PM

Author(s):

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## Posters: Wavefront Control, Wavefront Sensing, and Segmented Mirror Alignment

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Sunday 10 June 2018

6:00 PM - 8:00 PM

Location: CC Level 1, Exhibit Hall 2

Posters in this session may be displayed beginning at 10.00 on the designated day and will be available for extended viewing. The interactive poster session with authors in attendance will be Sunday evening from 6:00 to 8:00 PM. Authors should remove their posters at the end of the poster session. Posters left displayed will be considered unwanted and will be discarded.


Poster presentation guidelines are available [online](#).

#### Design considerations of an inductive sensor for segmented mirror telescopes

Paper 10700-226

Time: 6:00 PM - 8:00 PM

Author(s): Varun Kumar, Padmakar S. Parihar, Indian Institute of Astrophysics (India); Athul Nakulan, Arjun Manoharan, Christ Univ. (India)


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#### Performance of spatial filtering wavefront sensor for the phasing of segmented telescopes

Paper 10700-227

Time: 6:00 PM - 8:00 PM

Author(s): Anne-Laure Cheffot, European Southern Observatory (Germany), Lab. d'Astrophysique de Marseille (France); Lothar Noethe, European Southern Observatory (Germany); Kjetil Dohlen, Arthur Vigan, Emmanuel Hugot, Lab. d'Astrophysique de Marseille (France); Samuel Lévêque, European Southern Observatory (Germany); Jean-Francois Sauvage, Lab. d'Astrophysique de Marseille (France)


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#### The research progress of eddy current edge sensors for Chinese Extremely Large Telescope

Paper 10700-228

Time: 6:00 PM - 8:00 PM

Author(s): Jijun Ni, Nanjing Institute of Astronomical Optics & Technology (China); Wei Li, Univ. of Science and Technology of China (China); Jing Yin, Hefei Normal Univ. (China); Chengliang Pan, Hefei Univ. of Technology (China); Yong Zhang, Nanjing Institute of Astronomical Optics & Technology (China)

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#### High accuracy tip sensing of a segmented ring solar telescope

(Canceled)

Paper 10700-229

Time: 6:00 PM - 8:00 PM


Author(s):

#### Upgraded wavefront sensor control and analysis software for the MMT Observatory

Paper 10700-230

Time: 6:00 PM - 8:00 PM

Author(s): Timothy E. Pickering, MMT Observatory (United States)


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#### Mechanisms in the GMT acquisition guiding and wavefront sensing system

Paper 10700-231

Time: 6:00 PM - 8:00 PM

Author(s): Daniel Catropa, Brian A. McLeod, Joseph D'Arco, Daniel Durusky, Jan Kinsky, Derek Kopon, Kenneth McCracken, Stuart McMuldloch, William Podgorski, Harvard-Smithsonian Ctr. for Astrophysics (United States); Antonin Bouchez, GMTO Corp. (United States)

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MONDAY 11 JUNE

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## Monday Plenary Session

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Monday 11 June 2018  
8:50 AM - 10:00 AM  
Location: CC Level 1, Ballroom A

Coffee Break 10:00 AM - 10:30 AM

## Session 4: Project Reviews: Assembly, Integration, and Verification

Monday 11 June 2018  
10:30 AM - 11:50 AM  
Location: CC Level 1, Ballroom A


Session Chairs: [Jason Spyromilio](#), European Southern Observatory (Germany) ; [Tomonori Usuda](#), National Astronomical Observatory of Japan (Japan)

### The Balloon Experimental Twin Telescope for infrared interferometry (BETTII): first flight *(Invited Paper)*

Paper 10700-232

Time: 10:30 AM - 11:00 AM

Author(s): Stephen A. Rinehart, NASA Goddard Space Flight Ctr. (United States); Amab Dhabal, D. J. Fixsen, Univ. of Maryland, College Park (United States); Roser Juanola-Parramon, David T. Leisawitz, NASA Goddard Space Flight Ctr. (United States); Stephen F. Maher, Science Systems and Applications, Inc. (United States); John E. Mentzell, NASA Goddard Space Flight Ctr. (United States); Lee G. Mundy, Univ. of Maryland, College Park (United States); Maxime J. Rizzo, Henry P. Sampler, NASA Goddard Space Flight Ctr. (United States); Elmer H. Sharp, Global Science & Technology, Inc. (United States); Robert F. Silverberg, Association of Universities for Research in Astronomy, Inc. (United States); Marc Casalprim Torres, The Catholic Univ. of America (United States); Todd J. Veach, Southwest Research Institute (United States); Jordi Vila Hemández de Lorenzo, The Catholic Univ. of America (United States); Peter A. R. Ade, Carole E. Tucker, Enzo Pascale, Cardiff Univ. (United Kingdom); Giorgio Savini, Univ. College London (United Kingdom)

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### Progress in the commissioning of Five-hundred-meter Aperture Spherical radio Telescope *(Invited Paper)* (Canceled)

Paper 10700-233

Time: 11:00 AM - 11:30 AM


Author(s):

### The Greenland telescope: Thule operations

Paper 10700-234

Time: 11:30 AM - 11:50 AM

Author(s): Ming-Tang Chen, Philippe A. Raffin, Paul T. P. Ho, Makoto Inoue, Institute of Astronomy and Astrophysics - Academia Sinica (Taiwan); Bill C. Liu, National Chung-Shan Institute of Science and Technology (Taiwan); Ted Y. Huang, Chih-Chiang J. Han, Institute of Astronomy and Astrophysics - Academia Sinica (Taiwan); Timothy J. Norton, Harvard-Smithsonian Ctr. for Astrophysics (United States); Satoki Matsushita, Keiichi Asada, George U. Nystrom, Derek Y. Kubo, Institute of Astronomy and Astrophysics - Academia Sinica (Taiwan); Nimesh A. Patel, Harvard-Smithsonian Ctr. for Astrophysics (United States); Joshua S. Chang, Institute of Information Science - Academia Sinica (Taiwan); Ta-Shun Wei, Pierre Martin-Cocher, Homin Jiang, Paul Y. Shaw, Hiroaki Nishioka, Locutus C. Huang, Chung-Chen Chen, Patrick M. Koch, Ryan Chilson, Ranjani Srinivasan, Kuan-Yu Liu, Chen-Yu Yu, Geoffrey C. Bower, Peter Oshiro, William Snow, Shoko Koyama, Jun Yi Koay, Chao-Te Li, Weng-Ping Lo, Jack C. Chang, Masanori Nakamura, Institute of Astronomy and Astrophysics - Academia Sinica (Taiwan); Zheng Meyer-Zhao, Hung-Yi Pu, Institute of Astronomy and Astrophysics (Taiwan); Daniel Bintley, Craig Walther, Per Friberg, Jessica Dempsey, East Asia Observatory (United States); T.K. Sridharan, Sheperd S. Doeleman, Roger Brissenden, Harvard-Smithsonian Ctr. for Astrophysics (United States); Hideo Ogawa, Kimihiro Hasegawa, Osaka Prefecture University (Japan); Yutaka Hasegawa, Osaka Prefecture Univ. (Japan); Hao Jinchu, Kuo-Chang Han, Song-Chu Chang, Li-Ming L. Lu, National Chung-Shan Institute of Science and Technology (Taiwan); Juan-Carlos Algaba Marcos, Alex Allardi, Aaron Faber, Institute of Astronomy and Astrophysics - Academia Sinica (Taiwan); Fu-Li Hsu, China Steel Structure Co., Ltd, (Taiwan); Wei-Long Chen, Department of Industrial Design, Chaoyang University of Technology (Taiwan); Fang-Chia Hsieh, National Chung-Shan Institute of Science and Technology (Taiwan)

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Lunch Break 11:50 AM - 1:20 PM

## Session 5: Modeling as a Driver of Observatory Design I: Joint Session with Conferences 10700 and 10705

Monday 11 June 2018  
1:20 PM - 3:20 PM  
Location: CC Level 1, Ballroom A


Session Chairs: Jeffrey R. Kuhn, Institute for Astronomy (United States) ; [Amir Sadjadpour](#), Thirty Meter Telescope (United States) ; [Mitchell Troy](#), Jet Propulsion Lab. (United States) ; [George Z. Angeli](#), GMTO Corp. (United States)

### Stray light and thermal self-emission minimization at the ELT

Paper 10700-13

Time: 1:20 PM - 1:40 PM

Author(s): Ronald Holzlöhner, Johan Kosmalski, Stéphane Guisard, European Southern Observatory (Germany)


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**Integrated modeling under uncertainty for the James Webb Space Telescope**

Paper 10705-24

Time: 1:40 PM - 2:00 PM


Author(s): Giuseppe Cataldo, NASA Goddard Space Flight Ctr. (United States)

[Add To My Schedule](#) **Direct measurements of wind disturbances forces on the CTIO Blanco 4m telescope mount and its effect in tracking jitter**

Paper 10700-14

Time: 2:00 PM - 2:20 PM


Author(s): Michael Warner, Norman Diaz, Cerro Tololo Inter-American Observatory (Chile)

[Add To My Schedule](#) **A new finite element model of the SOFIA primary mirror cell to investigate dynamical behavior**

Paper 10700-15

Time: 2:20 PM - 2:40 PM


Author(s): Benjamin Greiner, Bernhard Malicek, Michael Lachenmann, Alfred Krabbe, Jörg Wagner, Deutsches SOFIA Institut, Univ. Stuttgart (Germany)

[Add To My Schedule](#) **Vibration measurements in the Daniel K. Inouye Solar Telescope**

Paper 10700-16

Time: 2:40 PM - 3:00 PM


Author(s): William R. McBride, Mackenzie Stratton, National Solar Observatory (United States)

[Add To My Schedule](#) **Monitoring LSST system performance during construction**

Paper 10705-25

Time: 3:00 PM - 3:20 PM

Author(s): Bo Xin, Charles F. Claver, LSST (United States); Željko Ivezić, Lynne Jones, Univ. of Washington (United States); John Peterson, Purdue Univ. (United States); Brian M. Selvy, LSST (United States); Scott Daniel, Peter Yoachim, Univ. of Washington (United States)

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**Coffee Break 3:20 PM - 3:50 PM**

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## Session 6: Modeling as a Driver of Observatory Design II: Joint Session with Conferences 10700 and 10705

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Monday 11 June 2018

3:50 PM - 5:30 PM


Location: CC Level 1, Ballroom A

Session Chairs: [Yongtian Zhu](#), Nanjing Institute of Astronomical Optics & Technology (China) ; [Victor L. Krabbendam](#), LSST (United States) ; [Roberto Biasi](#), Microgate S.r.l. (Italy)**JWST structural-thermal-optical stability model validation**

Paper 10705-26

Time: 3:50 PM - 4:10 PM


Author(s): Joseph M. Howard, Kong Q. Ha, Garrett J. West, Jeffrey S. Smith, Timothy M. Camahan, NASA Goddard Space Flight Ctr. (United States); Cherie Congedo, SGT, Inc. (United States); Andrew Weaver, NASA Goddard Space Flight Ctr. (United States)

[Add To My Schedule](#) **Interferometric characterization of Keck segment edge errors**

Paper 10700-17

Time: 4:10 PM - 4:30 PM


Author(s): Mitchell Troy, Jet Propulsion Lab. (United States); Gary Chanan, Univ. of California, Irvine (United States); Mark Colavita, Jet Propulsion Lab. (United States); Stephen J. Martinek, 4D Technology Corp. (United States)

[Add To My Schedule](#) **The Giant Magellan Telescope phasing strategy and performance**

Paper 10700-18

Time: 4:30 PM - 4:50 PM


Author(s): Fernando Quirós-Pacheco, David Schwartz, Kaushik Das, Rodolphe Conan, Antonin H. Bouchez, Ben Irrazaval, GMTO Corp. (United States); Brian A. McLeod, Smithsonian Astrophysical Observatory (United States)

[Add To My Schedule](#) **Optical performance prediction of the Thirty Meter Telescope after initial alignment using optical modeling**

Paper 10705-27

Time: 4:50 PM - 5:10 PM

Author(s): Byoung-Joon Seo, Carl Nissly, Mark Colavita, Mitchell Troy, Jet Propulsion Lab. (United States); Scott Roberts, John Rogers, Thirty Meter Telescope (United States)



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**Computational fluid dynamics modeling of GMT**

Paper 10705-28

Time: 5:10 PM - 5:30 PM

Author(s): Konstantinos Vogiatzis, Kaushik Das, George Z. Angeli, Bruce C. Bigelow, William Burgett, GMTO Corp. (United States)

[Add To My Schedule](#) **TUESDAY 12 JUNE**[Show All Abstracts](#) **Tuesday Plenary Session**

Tuesday 12 June 2018

9:00 AM - 10:00 AM

Location: CC Level 1, Ballroom A

**Coffee Break 10:00 AM - 10:30 AM****Session 7:  
Major Observatory Upgrades**

Tuesday 12 June 2018

10:30 AM - 12:30 PM


Location: CC Level 1, Ballroom A

Session Chairs: [Matthew M. Colless](#), The Australian National Univ. (Australia) ; [Emanuela Ciattaglia](#), European Southern Observatory (Germany)**Progress on the W. M. Keck Observatory segment repair project**

Paper 10700-19

Time: 10:30 AM - 10:50 AM


Author(s): Dennis McBride, Allen Agliam, Ben Bergin, Jake Bilyk, Steve Doyle, John S. Hudek, Danya Jacob, Robert Meeks, Cailean O'Sullivan, Doug Pery, Kuochou Tai, Tod Von Boeckmann, Leslie Wold, Truman Wold, W. M. Keck Observatory (United States)

[Add To My Schedule](#) **Completion and performance of the Hobby-Eberly Telescope wide field upgrade**

Paper 10700-20

Time: 10:50 AM - 11:10 AM

Author(s): Gary J. Hill, Niv Drory, John M. Good, Hanshin Lee, Brian L. Vattiat, Herman Kriel, Jason Ramsey, Randy Bryant, James Fowler, The Univ. of Texas at Austin (United States); Martin Landriau, Lawrence Berkeley National Lab. (United States); Ron Leck, Emily Mrozinski, Stephen Odewahn, Matthew Shetrone, Amy Westfall, Eusebio Terrazas, Edmundo Balderrama, The Univ. of Texas at Austin (United States); Emily Bevins, Hobby Eberly Telescope (United States); Brent Buetow, The Univ. of Texas at Austin (United States); John Caldwell, Hobby Eberly Telescope (United States); George Damm, Phillip J. MacQueen, Jerry Martin, Amanda Martin, The Univ. of Texas at Austin (United States); Justin Pautzke, Hobby Eberly Telescope (United States); Katie Smither, Sergey Rostopchin, Greg Smith, Renny Spencer, Taft Armandroff, Karl Gebhardt, The Univ. of Texas at Austin (United States); Lawrence W. Ramsey, The Pennsylvania State Univ. (United States)

[Add To My Schedule](#) **Dome seeing monitor and its results for the 4m Blanco telescope**

Paper 10700-21

Time: 11:10 AM - 11:30 AM


Author(s): Edison Bustos, Andrei Tokovinin, National Optical Astronomy Observatory (Chile)

[Add To My Schedule](#) **NOEMA: a powerful millimeter wave interferometer using next generation technology (Conference Presentation)**

Paper 10700-22

Time: 11:30 AM - 11:50 AM


Author(s): Karl F. Schuster, Roberto Neri, Frederic Gueth, Arancha Castro-Carrizo, Jerome Pety, Bertrand Gautier, Bastien Lefranc, Sebastien Blanchet, Patrick Dumontrot, Dominique Broguière, Olivier Gentaz, Sylvain Mahieu, Vincent Pietu, Jeremy Boissier, Michael Bremer, Melanie Krips, Jan-Martin Winters, Roberto García, IRAM-Domaine Univ. de Grenoble (France)

[Add To My Schedule](#) **Mini-tracker concepts for the SALT transient follow-up program**

Paper 10700-23

Time: 11:50 AM - 12:10 PM


Author(s): John A. Booth, Large Telescope Consulting Engineering (United States); Michael Shara, American Museum of Natural History (United States); Steven M. Crawford, South African Astronomical Observatory (South Africa); Lisa A. Crause, South African Astronomical Observatory (South Africa), Southern African Large Telescope (South Africa)

[Add To My Schedule](#) **DESI installation: preparations and progress (Conference Presentation)**

Paper 10700-24

Time: 12:10 PM - 12:30 PM

Author(s): Lori Allen, D. Sprayberry, M. Evatt, R. Marshall, B. Abareshi, T. Lavoie, R. Joyce, R. Probst, A. Dey, R. Blum, National Optical Astronomy Observatory (United States); R. Besuner, P. Jelinsky, J. Silber, T. Claybaugh, C. Poppett, Lawrence Berkeley National Lab. (United States); P. Doel, D. Brooks, Univ. College London (United Kingdom); G. Gutierrez, B. Flaughner, G. Gallo, D. Friend, Fermi National Accelerator Lab. (United States); R. Sharples, D. Bramall, Durham Univ. (United Kingdom); K. Honscheid, P. Martini, M. Derwent, T. O'Brien, The Ohio State Univ. (United States)

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**Lunch Break 12:30 PM - 2:00 PM**

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## Session 8: Project Reviews: Observatories Under Construction

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Tuesday 12 June 2018

2:00 PM - 3:30 PM

Location: CC Level 1, Ballroom A

Session Chairs: [Tomonori Usuda](#), National Astronomical Observatory of Japan (Japan) ; [Jason Spyromilio](#), European Southern Observatory (Germany)


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**The Large Synoptic Survey telescope construction status in 2018 (Conference Presentation) (Invited Paper)**

Paper 10700-25

Time: 2:00 PM - 2:30 PM


Author(s): Victor L. Krabbendam, LSST (United States); Steven Kahn, SLAC National Accelerator Lab. (United States)

[Add To My Schedule](#) **Construction update of the Daniel K. Inouye Solar Telescope project (Invited Paper)**

Paper 10700-26

Time: 2:30 PM - 3:00 PM


Author(s): Mark H. Warner, Thomas R. Rimmele, Valentin M. Pillet, National Solar Observatory (United States); Roberto Casini, University Corporation for Atmospheric Research, High Altitude Observatory (United States); Steve Berukoff, Simon C. Craig, Andrew Ferayorni, Bret D. Goodrich, Robert P. Hubbard, David Harrington, Paul Jeffers, Erik M. Johansson, Ruth A. Kneale, National Solar Observatory (United States); Jeff Kuhn, Institute for Astronomy (United States); Chen Liang, National Solar Observatory (United States); Haosheng Lin, Institute for Astronomy (United States); Heather Marshall, National Solar Observatory (United States); Mihalis Mathioudakis, Queen's University Belfast (United Kingdom); William R. McBride, Joseph McMullin, William McVeigh, Predrag Sekulic, National Solar Observatory (United States); Wolfgang Schmidt, Kiepenheuer Institute for Solar Physics (Germany); Steve Shimko, Stacey Sueoka, Rich Summers, Alexandra Tritschler, Timothy R. Williams, Friedrich Woeger, National Solar Observatory (United States)

[Add To My Schedule](#) **The University of Tokyo Atacama Observatory 6.5m telescope: project overview and current status (Invited Paper)**

Paper 10700-27

Time: 3:00 PM - 3:30 PM

Author(s): Mamoru Doi, Takashi Miyata, Yuzuru Yoshii, Kotaro Kohno, Masuo Tanaka, Kentaro Motohara, Takeo Minezaki, K. Kawara, Shigeyuki Sako, Tomoki Morokuma, The Univ. of Tokyo (Japan); Yoichi Tamura, Nagoya Univ. (Japan); Toshihiko Tanabe, Bunyo Hatsukade, Hidenori Takahashi, Masahiro Konishi, Takafumi Kamizuka, Natsuko Kato, Tsutomu Aoki, Takao Soyano, Ken'ichi Tarusawa, The Univ. of Tokyo (Japan); Toshihiro Handa, Kagoshima Univ. (Japan); Shintaro Koshida, National Astronomical Observatory of Japan (Japan); Leonardo Bronfman, Maria T. Ruiz, Mario Hamuy, Rene Mendez, Guido Garay, Andres Escala, Univ. de Chile (Chile)

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**Coffee Break 3:30 PM - 4:00 PM**

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## Session 9: Project Reviews: Early Construction

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Tuesday 12 June 2018

4:00 PM - 5:30 PM

Location: CC Level 1, Ballroom A

Session Chairs: [Predrag Sekulic](#), National Solar Observatory (United States) ; [Yongqian Zhu](#), Nanjing Institute of Astronomical Optics & Technology (China)


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**Cherenkov Telescope Array (CTA): building the world's largest ground-based gamma-ray observatory (Invited Paper)**

Paper 10700-28

Time: 4:00 PM - 4:30 PM


Author(s): Wolfgang Wild, Cherenkov Telescope Array Observatory GmbH (Italy)

[Add To My Schedule](#) **Square Kilometer Array project status report (Invited Paper)**

Paper 10700-29

Time: 4:30 PM - 5:00 PM

Author(s): Alistair M. McPherson, Joseph McMullin, Tim Stevenson, Peter Dewdney, Andrea Casson, Luca Stringhetti, Miles Deegan, Peter Hekman, Martin Austin, Mark Harman, Phillip Gibbs, Andre VanEs, Maria-Grazia Labate, Gerhard Swart, Marco Ciaizzo, Daniel Haydon, Wallace Turner, SKA Organisation (United Kingdom)

[Add To My Schedule](#) **The Telescopio San Pedro Mártir project (Invited Paper)**


Paper 10700-30

Time: 5:00 PM - 5:30 PM

Author(s): Michael G. Richer, William H. Lee, Univ. Nacional Autónoma de México (Mexico); Leopoldo Altamirano, Instituto Nacional de Astrofísica, Óptica y Electrónica (Mexico); J. Jesús González, Univ. Nacional Autónoma de México (Mexico); Charles Alcock, Smithsonian Astrophysical Observatory (United States)



States); Buell Jannuzi, The Univ. of Arizona (United States); Fabián Rosales-Ortega, Instituto Nacional de Astrofísica, Óptica y Electrónica (Mexico); Marisa García-Vargas, FRACTAL S.L.N.E. (Spain); Joel Herrera Vázquez, Univ. Nacional Autónoma de México (Mexico); Derek Hill, M3 Engineering & Technology Corp. (United States); María H. Pedrayes, Univ. Nacional Autónoma de México (Mexico); Ana Pérez Calpena, FRACTAL S.L.N.E. (Spain); Mauricio Reyes Ruiz, Univ. Nacional Autónoma de México (Mexico); Lino H. Rodríguez Merino, Instituto Nacional de Astrofísica, Óptica y Electrónica (Mexico); Beatriz Sánchez Sánchez, Hazael Serrano Guerrero, Gerardo Sierra Díaz, Univ. Nacional Autónoma de México (Mexico); Andrew Szentgyorgyi, Smithsonian Astrophysical Observatory (United States); José Teran, M3 Engineering & Technology Corp. (United States); David Urdaibay, Univ. Nacional Autónoma de México (Mexico); Jorge A. Uribe Uribe, Ctr. de Ingeniería y Desarrollo Industrial (Mexico); Alan M. Watson, Univ. Nacional Autónoma de México (Mexico); Dennis Zaritsky, Mario Rascon, The Univ. of Arizona (United States); Urania Cesena, Francisco Murillo Bracamontes, Fernando Quirós Parra, Erika Sohn, Univ. Nacional Autónoma de México (Mexico)

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## Session 10: Pathfinder Projects

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Tuesday 12 June 2018  
5:30 PM - 6:10 PM  
Location: CC Level 1, Ballroom A

Session Chairs: [Predrag Sekulic](#), National Solar Observatory (United States) ; [Yongtian Zhu](#), Nanjing Institute of Astronomical Optics & Technology (China)


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### Final characterisation and design of the Gamma-ray Cherenkov Telescope (GCT) for the Cherenkov Telescope Array

Paper 10700-32

Time: 5:30 PM - 5:50 PM

Author(s): Oriane Le Blanc, Gilles Fasola, Jean-Michel Huet, Observatoire de Paris (France); Richard White, Max-Planck-Institut für Kernphysik (Germany); Anton Dmytriiev, Hélène Sol, Andreas Zech, Observatoire de Paris (France); Abdelkader Abchiche, DT-INSU (France); Jean-Philippe Amans, Observatoire de Paris (France); Thomas Armstrong, University of Oxford (United Kingdom); Miquel Barcelo, Max-Planck-Institut für Kernphysik (Germany); David Berge, Deutsches Elektronen-Synchrotron (Germany); Anthony Brown, Durham University (United Kingdom); Gilles Buchholtz, DT-INSU (France); Paula Chadwick, Paul Clark, Durham University (United Kingdom); Garret Cotter, University of Oxford (United Kingdom); Lucie Dangeon, Fatima De Frondat, Observatoire de Paris (France); Peter Deiml, Erlangen Centre for Astroparticle Physics (Germany); Jean-Laurent Dournaux, Observatoire de Paris (France); Connor Duffy, University of Leicester (United Kingdom); Sabrina Einecke, University of Adelaide (Australia); Samuel Fliis, Deutsches Elektronen-Synchrotron (Germany); Stefan Funk, Erlangen Centre for Astroparticle Physics (Germany); Gianluca Giavitto, Deutsches Elektronen-Synchrotron (Germany); Johann Gironnet, DT-INSU (France); Jamie Graham, Durham University (United Kingdom); Tim Greenshaw, University of Liverpool (United Kingdom); Jim Hinton, Max-Planck-Institut für Kernphysik (Germany); Isabelle Jégouzo, Observatoire de Paris (France); Manuel Kraus, Erlangen Centre for Astroparticle Physics (Germany); Jon Lapington, University of Leicester (United Kingdom); Philippe Laporte, Observatoire de Paris (France); Steven Leach, University of Leicester (United Kingdom); Sheridan Lloyd, Durham University (United Kingdom); Ignacio Minaya, University of Liverpool (United Kingdom); Robin Morier, Observatoire de Paris (France); Akira Okumura, Nagoya University (Japan); Heike Prokoph, Deutsches Elektronen-Synchrotron (Germany); Duncan Ross, University of Leicester (United Kingdom); Gavin Rowell, University of Adelaide (Australia); Cameron Rulten, Durham University (United Kingdom); Harm Schoorlemmer, Max-Planck-Institut für Kernphysik (Germany); Jürgen Schmall, Durham University (United Kingdom); Samuel Spencer, University of Oxford (United Kingdom); Maurice Stephan, Gravitation and AstroParticle Physics in Amsterdam (Netherlands); Remko Stuik, Leiden Observatory (Netherlands); Hiroyasu Tajima, Nagoya University (Japan); Julian Thornhill, University of Leicester (United Kingdom); Luigi Tibaldo, Institut de recherche en astrophysique et planétologie (France); Jacco Vink, Gravitation and AstroParticle Physics in Amsterdam (Netherlands); Jason Watson, University of Oxford (United Kingdom); Jamie Williams, University of Leicester (United Kingdom); Adrian Zink, Erlangen Centre for Astroparticle Physics (Germany); Justus Zorn, Max-Planck-Institut für Kernphysik (Germany)

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### The Vivaldi feed design for the HERA telescope (Canceled)

Paper 10700-33

Time: 5:50 PM - 6:10 PM

Author(s):

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WEDNESDAY 13 JUNE

[Show All Abstracts](#)

## Wednesday Plenary Session

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Wednesday 13 June 2018  
9:00 AM - 10:00 AM  
Location: CC Level 1, Ballroom A

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Coffee Break 10:00 AM - 10:30 AM

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## Session 11: Project Reviews: Extremely Large Telescopes

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Wednesday 13 June 2018  
10:30 AM - 12:20 PM  
Location: CC Level 1, Ballroom A

Session Chairs: [Emanuela Ciattaglia](#), European Southern Observatory (Germany) ; [Bruce C. Bigelow](#), GMTO Corp. (United States)


---

### Overview and status of the Giant Magellan Telescope project (Invited Paper)

Paper 10700-34

Time: 10:30 AM - 11:00 AM

Author(s): James L. Fanson, GMTO Corp. (United States); Patrick J. McCarthy, Rebecca Bernstein, GMTO Corp. (United States), Carnegie Observatories (United States); George Z. Angeli, GMTO Corp. (United States); David S. Ashby, GMTO Corp. (United States), The Univ. of Arizona (United States); Bruce C. Bigelow, Antonin H. Bouchez, William S. Burgett, Eric Chauvin, Adam Contos, Francisco Figueroa, Peter Gray, Frank Groark, Robert Laskin, Rafael Millan-Gabet, Andrew Rakich, Rodrigo Sandoval, Marti Pi, Nune Wheeler, GMTO Corp. (United States)


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#### Thirty Meter telescope projectstatus (Conference Presentation) (Invited Paper)

Paper 10700-35

Time: 11:00 AM - 11:30 AM

Author(s): Fengchuan Liu, Gary Sanders, Thirty Meter Telescope (United States)


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#### The ESO's ELT construction status (Invited Paper)

Paper 10700-36

Time: 11:30 AM - 12:00 PM

Author(s): Roberto Tamai, Bertrand Koehler, Michele Cirasuolo, Fabio Biancat-Marchet, Mauro Tuti, Juan Carlos Gonz ales Herrera, European Southern Observatory (Germany)


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#### The Exo-Life Finder Telescope (ELF): design and beam synthesis concepts

Paper 10700-37

Time: 12:00 PM - 12:20 PM

Author(s): Jeffrey R. Kuhn, Institute for Astronomy (United States); Svetlana V. Berdyugina, Kiepenheuer-Institut f ur Sonnenphysik (Germany); J.-F. Capsal, Univ. Lyon, INSA-Lyon, LGEF (France); M. Gedig, Dynamic Structure, Ltd. (Canada); Maud Langlois, Ctr. de Recherche Astronomique de Lyon, Ctr. National de la Recherche Scientifique (France); Gil Moretto, Ctr. de Recherche Astronomique de Lyon, Ctr. National de la Recherche Scientifique (France),  cole Normale Sup rieure de Lyon (France); K. Thetraphi, Univ. Lyon, INSA-Lyon, LGEF (France)

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### Lunch Break 12:20 PM - 1:30 PM

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## Session 12: Gravitational Wave Observatories

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Wednesday 13 June 2018

1:30 PM - 2:30 PM

Location: CC Level 1, Ballroom A

Session Chairs: [Heather K. Marshall](#), National Solar Observatory (United States) ; [Predrag Sekulic](#), National Solar Observatory (United States)


---

#### Engineering behind the Laser Interferometer Gravitational-wave Observatory (LIGO) (Conference Presentation) (Invited Paper)

Paper 10700-38

Time: 1:30 PM - 2:00 PM

Author(s): Dennis Coyne, Caltech (United States)


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#### Status of the Advanced Virgo gravitational wave detector (Invited Paper)

Paper 10700-39

Time: 2:00 PM - 2:30 PM

Author(s): Henrich Heitmann, Observatoire de la C te d'Azur (France), Ctr. National de la Recherche Scientifique (France)

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## Session 13: Opto-Mechanical Systems

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Wednesday 13 June 2018

2:30 PM - 3:30 PM

Location: CC Level 1, Ballroom A

Session Chairs: [Heather K. Marshall](#), National Solar Observatory (United States) ; [Predrag Sekulic](#), National Solar Observatory (United States)


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#### ELT optomechanics: construction status

Paper 10700-40

Time: 2:30 PM - 2:50 PM

Author(s): Marc Cayrel, Philippe Dierickx, Andreas F rster, Fr d ric Derie, Liselotte Jochum, Lorenzo Pettazzi, Christian Lucuix, Christoph Haupt, Michael M ller, Elise Vernet, Jean-Fran ois Pirard, European Southern Observatory (Germany)


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#### LSST secondary mirror assembly

Paper 10700-41

Time: 2:50 PM - 3:10 PM


Author(s): William J. Gressler, Douglas R. Neill, John Bagnasco, Paul J. Lotz, Dave Mills, Mike Warner, Oliver Wiecha, LSST (United States); Gregory N. Bogan, James M. Ellis, Dale C. Zajac, Steven A. Szklany, Ronald T. Broccolo, Malcolm N. O'Sullivan, Frank A. Carbone, Cormic K. Merle, Harris Corporation (United States)

[Add To My Schedule](#) **Prototype segmented mirror telescope: a pathfinder of India's Large Optical-NIR telescope project**

Paper 10700-42

Time: 3:10 PM - 3:30 PM

Author(s): Padmakar Singh S. Parihar, Prasanna Deshmukh, Annu Jacob, Varun Kumar, Abhishek Goudar, S. Sriram, S. Nagabhusan, Amit Kumar Sahgal, K. V. Govinda, D.S. Sandeep, P.M.M. Kemkar, G.C. Anupama, Indian Institute of Astrophysics (India)

[Add To My Schedule](#) **Coffee Break 3:30 PM - 4:00 PM****Session 14:  
Phasing**

Wednesday 13 June 2018

4:00 PM - 6:00 PM


Location: CC Level 1, Ballroom A

Session Chairs: Jeffrey R. Kuhn, Institute for Astronomy (United States) ; [Jason Spyromilio](#), European Southern Observatory (Germany)**Extremely Large Telescope Prefocal Station A system concept**

Paper 10700-43

Time: 4:00 PM - 4:20 PM

Author(s): Steffan A. Lewis, Enzo Brunetto, Andreas Förster, Christoph Frank, Ivan Guidolin, Stéphane Guisard, Peter Hammersley, Ronald Holzlöhner, Paul Jolley, Johan Kosmalski, Ulrich Lampater, Enrico Marchetti, Paolo La Penna, Thomas Pfrommer, Pablo Zuluaga, European Southern Observatory (Germany)

[Add To My Schedule](#) **SALT: results of active primary mirror segment alignment using inductive edge sensors****(Canceled)**

Paper 10700-44

Time: 4:20 PM - 4:40 PM


Author(s):

**A novel technique to measure residual systematic segment piston errors of large aperture optical telescopes**

Paper 10700-45

Time: 4:40 PM - 5:00 PM


Author(s): Sam Ragland, W. M. Keck Observatory (United States)

[Add To My Schedule](#) **Chromatic effects in narrowband phasing of the Keck Telescope segments: theory and numerical simulations**

Paper 10700-46

Time: 5:00 PM - 5:20 PM


Author(s): Gary Chanan, Univ. of California, Irvine (United States); Mitchell Troy, Jet Propulsion Lab. (United States)

[Add To My Schedule](#) **Planetary science capabilities of a UV-visible balloon-borne telescope as a function of wavefront error (Conference Presentation)**

Paper 10700-48

Time: 5:40 PM - 6:00 PM


Author(s): Eliot F. Young, Southwest Research Institute (United States); Brian Catanzaro, CFE Services (United States); Nicolas Gorius, The Catholic Univ. of America (United States); Robert A. Woodruff, Woodruff Consulting (United States); Monica Hoffmann, Jeffrey R. Juergens, NASA Glenn Research Ctr. (United States)

[Add To My Schedule](#) **Aligning and phasing segmented mirror telescope with the pyramid sensor**

Paper 10700-47

Time: 5:20 PM - 5:40 PM


Author(s): Annu Jacob, Padmakar S. Parihar, Indian Institute of Astrophysics (India); Sindhu Divakaran, Manipal Institute of Technology (India); Melvin K. James, St. Joseph's College (India)

[Add To My Schedule](#) **An end-to-end simulation to predict the in-flight performance improvement of a modified SOFIA secondary mirror mechanism**

Paper 10700-114

Time: 6:00 PM - 8:00 PM

Author(s): Yannick Lammen, SOFIA / USRA (United States); Andreas Reinacher, Deutsches SOFIA Institut (United States); Alfred Krabbe, Deutsches SOFIA Institut, Univ. Stuttgart (Germany)

[Add To My Schedule](#) **Posters: Telescope Control II**

Wednesday 13 June 2018

6:00 PM - 8:00 PM

**Flight performance of the attitude control system of the balloon experimental twin telescope for infrared interferometry (BETTII)**

Paper 10700-213

Time: 6:00 PM - 8:00 PM

Author(s): Jordi Vila Hernández de Lorenzo, Stephen A. Rinehart, Maxime Rizzo, NASA Goddard Space Flight Ctr. (United States); Marc Casalprim Torres, The Catholic Univ. of America (United States), Institut Supérieur de l'Aéronautique et de l'Espace (France), Univ. Politècnica de Catalunya (Spain); Stephen Maher, Science Systems and Applications, Inc. (United States); Arnab Dhabal, Univ. of Maryland, College Park (United States); Georges Nehmetallah, The Catholic Univ. of America (United States); Dale J. Fixsen, Univ. of Maryland, College Park (United States); Todd Veach, Southwest Research Institute (United States); Fernando Martignone Esteves, The Catholic Univ. of America (United States)

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**THURSDAY 14 JUNE**[Show All Abstracts](#)**Thursday Plenary Session**

Thursday 14 June 2018

8:30 AM - 10:00 AM

Location: CC Level 1, Ballroom A

**Coffee Break 10:00 AM - 10:30 AM****Session 15:  
Project Reviews: Robotic Telescopes and Arrays**

Thursday 14 June 2018

10:30 AM - 12:00 PM


Location: CC Level 1, Ballroom A

Session Chairs: [Heather K. Marshall](#), National Solar Observatory (United States) ; Jeffrey R. Kuhn, Institute for Astronomy (United States)**SPECULOOS: a network of robotic telescopes to hunt for terrestrial planets around the nearest ultracool dwarfs (Invited Paper)**

Paper 10700-49

Time: 10:30 AM - 11:00 AM

Author(s): Laetitia Delrez, Univ. of Cambridge (United Kingdom); Michaël Gillon, Univ. de Liège (Belgium); Didier Queloz, Univ. of Cambridge (United Kingdom); Brice-Olivier Demory, Univ. Bern (Switzerland); Yaseen Almeaky, King Abdulaziz Univ. (Saudi Arabia); Julien de Wit, Massachusetts Institute of Technology (United States); Emmanuël Jehin, Univ. de Liège (Belgium); Amaury Triaud, The Univ. of Birmingham (United Kingdom); Khalid Barkaoui, Univ. Cadi Ayyad (Morocco); Artem Burdanov, Univ. de Liège (Belgium); Adam Burgasser, Univ. of California, San Diego (United States); Elsa Ducrot, Univ. de Liège (Belgium); James McCormac, Univ. of Warwick (United Kingdom); Catriona Murray, Univ. of Cambridge (United Kingdom); Catarina Silva Fernandes, Sandrine Sohy, Univ. de Liège (Belgium); Sam Thompson, Univ. of Cambridge (United Kingdom); Valérie Van Grootel, Univ. de Liège (Belgium); Roi Alonso, Instituto de Astrofísica de Canarias (Spain); Zouhair Benkhaldoun, Univ. Cadi Ayyad (Morocco); Rafael Rebolo, Instituto de Astrofísica de Canarias (Spain)


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**The BlackGEM array (Conference Presentation)**

Paper 10700-50

Time: 11:00 AM - 11:20 AM

Author(s): Paul J. Groot, Radboud Univ Nijmegen (Netherlands); Steven Bloemen, Radboud Univ. Nijmegen (Netherlands); Peter Jonker, SRON Netherlands Institute for Space Research (Netherlands), Radboud Univ. Nijmegen (Netherlands); Paul Vreeswijk, Radboud Univ. Nijmegen (Netherlands); Kerry Paterson, Univ. of Cape Town (South Africa); Rik ter Horst, Ramón Navarro, Dirk Lesman, NOVA Optical IR Instrumentation Group (Netherlands); Arno Engels, Roy Bakker, Radboud Univ. Nijmegen (Netherlands); Harrie Rutten, Castor Optical Design (Netherlands); Gert Raskin, Conny Aerts, KU Leuven (Belgium); Gijs Nelemans, Radboud Univ. Nijmegen (Netherlands)


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**SAMM: the solar activity MOF monitor**

Paper 10700-51

Time: 11:20 AM - 11:40 AM

Author(s): Marco Stangalini, Roberto Piazzesi, Roberto Speziali, INAF - Osservatorio Astronomico di Roma (Italy); Luciano Dal Sasso, Baader Planetarium GmbH (Italy)


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**Introduction of Chinese Antarctic optical telescopes**

Paper 10700-52

Time: 11:40 AM - 12:00 PM

Author(s): Zhengyang Li, Xiangyan Yuan, Xiangqun Cui, Nanjing Institute of Astronomical Optics & Technology (China); Lifan Wang, Purple Mountain Observatory (China); Zhaohui Shang, National Astronomical Observatories (China); Fujia Du, Xuefei Gong, Bozhong Gu, Nanjing Institute of Astronomical Optics & Technology (China); Yi Hu, National Astronomical Observatories (China); Peng Jiang, Polar Research Institute of China (China); Xiaoyan Li, Haiping Lu, Nanjing Institute of Astronomical Optics & Technology (China); Bin Ma, Purple Mountain Observatory (China); Fuhai Wei, Polar Research Institute of China (China); Haikun Wen, Jin Xu, Shihai Yang, Nanjing Institute of Astronomical Optics & Technology (China); Honyan Zhou, Polar Research Institute of China (China)

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**Lunch Break 12:00 PM - 1:20 PM**

## Session 16: Project Reviews: Projects in Development

Thursday 14 June 2018

1:20 PM - 3:30 PM

Location: CC Level 1, Ballroom A


Session Chairs: [Frank W. Kan](#), Simpson Gumpertz & Heger Inc. (United States) ; [Matthew M. Colless](#), The Australian National Univ. (Australia) 

### CCAT-Prime: science with an ultra-widefield submillimeter observatory on Cerro Chajnantor *(Invited Paper)*

Paper 10700-53

Time: 1:20 PM - 1:50 PM

Author(s): Gordon J. Stacey, Cornell Univ. (United States); Manuel Aravena, Univ. Diego Portales (Chile); Kaustuv Basu, Rheinisch-Friedrich-Wilhelms Univ. of Bonn (Germany); Nicholas Battaglia, Princeton Univ. (United States), Cornell Univ. (United States); Benjamin Beringue, DAMTP (United Kingdom); Frank Bertoldi, Univ. Bonn (Germany); J. Richard Bond, Patrick Breyse, CITA (Canada); Ricardo Bustos, Univ. Católica de la Santísima Concepción (Chile); Scott Chapman, Univ. of British Columbia (Canada); Dongwoo T. Chung, Stanford Univ. (United States); Nicholas Cothard, Cornell Univ. (United States); Jens Erler, Rheinische Friedrich-Wilhelms-Universität Bonn (Germany); Michel Fich, Univ. of Waterloo (Canada); Simon Foreman, CITA (Canada); Patricio Gallardo, Riccardo Giovanelli, Cornell Univ. (United States); Urs U. Graf, Univ. zu Köln (Germany); Martha P. Haynes, Cornell Univ. (United States); Rodrigo Herrera-Camus, Max-Planck-Institut für extraterrestrische Physik (Germany); Terry L. Herter, Cornell Univ. (United States); Renee Hlozek, University of Toronto (Canada); Douglas Johnstone, National Research Council Canada, Herzberg Astronomy & Astrophysics (Canada); Laura Keating, CITA (Canada); Benjamin Magnelli, Rheinische Friedrich-Wilhelms-Universität Bonn (Germany); Daan Meerburg, Kavli Institute for Cosmology, Cambridge (United Kingdom); Joel Meyers, Norman Murray, CITA (Canada); Michael D. Niemack, Thomas Nikola, Cornell Univ. (United States); Mike Nolta, CITA (Canada); Stephen C. Parshley, Dominik A. Riechers, Cornell Univ. (United States); Peter Schilke, Univ. zu Köln (Germany); Douglas Scott, Univ. of British Columbia (Canada); George Stein, CITA (Canada); Jason Stevens, Cornell Univ. (United States); Juergen Stutzki, Univ. zu Köln (Germany); Eve Vavagiakis, Cornell Univ. (United States); Marco Viero, Stanford Univ. (United States)


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### Maunakea spectroscopic explorer advancing from conceptual design *(Invited Paper)*

Paper 10700-54

Time: 1:50 PM - 2:20 PM

Author(s): Kei Szeto, Doug Simons, Steven Bauman, Alexis Hill, Nicolas Flagey, Alan McConnachie, Canada-France-Hawaii Telescope (United States); Shan Mignot, Galaxies Etoiles Physique Instrumentation (France), Ctr. National de la Recherche Scientifique (France), Observatoire de Paris à Meudon (France); Richard Murowinski, Canada-France-Hawaii Telescope (United States)

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### The Next-Generation Very Large Array: a technical overview *(Invited Paper)*

Paper 10700-55

Time: 2:20 PM - 2:50 PM

Author(s): Robert Selina, Eric Murphy, Mark McKinnon, Anthony J. Beasley, Bryan Butler, Chris Carilli, Barry Clark, Alan Erickson, Wes Grammer, James Jackson, Brian Kent, Brian Mason, Matthew Morgan, Omar Ojeda, William Shillue, Silver Sturgis, Denis Urbain, National Radio Astronomy Observatory (United States)


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### Introduction on Chinese 12m optical/infrared telescope (LOT)

Paper 10700-56

Time: 2:50 PM - 3:10 PM

Author(s): Xiangqun Cui, Yongtian Zhu, Ming Liang, Nanjing Institute of Astronomical Optics & Technology, Chinese Academy of Sciences (China); Dingqiang Su, Nanjing Univ. (China); Xiangyan Yuan, Zhongwen Hu, Hua Bai, Bozhong Gu, Nanjing Institute of Astronomical Optics & Technology, Chinese Academy of Sciences (China)


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### A recommended conceptual optical system design for China's Large Optical-infrared Telescope (LOT)

Paper 10700-57

Time: 3:10 PM - 3:30 PM

Author(s): Donglin Ma, Huazhong Univ. of Science and Technology (China)

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**Coffee Break 3:30 PM - 4:00 PM**

## Session 17: Alignment and Wavefront Sensing

Thursday 14 June 2018

4:00 PM - 5:40 PM

Location: CC Level 1, Ballroom A


Session Chair: [Victor L. Krabbendam](#), LSST (United States)

### Development of DKIST IT&C Shack-Hartmann wavefront measurement system

Paper 10700-58

Time: 4:00 PM - 4:20 PM

Author(s): Chen Liang, Predrag Sekulic, Kerry Gonzales, Pierre Aka, Simon Craig, National Solar Observatory (United States)


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**Prototyping the GMT telescope metrology system on LBT**

Paper 10700-59

Time: 4:20 PM - 4:40 PM


Author(s): Andrew Rakich, Patricio Schurter, Rodolphe Conan, GMTO Corp. (United States); John M. Hill, Michael Gardiner, Large Binocular Telescope Observatory (United States); Matthieu Bec, GMTO Corp. (United States); Olga Kuhn, Large Binocular Telescope Observatory (United States)

[Add To My Schedule](#) **The acquisition, guiding, and wavefront sensing system for the Giant Magellan Telescope**

Paper 10700-60

Time: 4:40 PM - 5:00 PM


Author(s): Brian A. McLeod, Daniel Catropa, Daniel Durusky, Jan Kansky, Derek Kopon, Kenneth McCracken, Stuart McMudroch, William Podgorski, Harvard-Smithsonian Ctr. for Astrophysics (United States); Antonin H. Bouchez, GMTO Corp. (United States)

[Add To My Schedule](#) **Automatic mirror alignment for the medium-sized telescopes of the Cherenkov Telescope Array using the Bokeh method**

Paper 10700-61

Time: 5:00 PM - 5:20 PM


Author(s): Thomas Murach, Deutsches Elektronen-Synchrotron (Germany); Ullrich Schwanke, Domenik Ehlert, Humboldt-Univ. zu Berlin (Germany); Markus Garczarczyk, Deutsches Elektronen-Synchrotron (Germany); Tim Lukas Holch, Stephan Kaphle, Humboldt-Univ. zu Berlin (Germany); David Melkumyan, Deutsches Elektronen-Synchrotron (Germany); Louise Oakes, Gerrit Spengler, Humboldt-Univ. zu Berlin (Germany)

[Add To My Schedule](#) **Introduction of measurement and control technology of FAST**

Paper 10700-62

Time: 5:20 PM - 5:40 PM

Author(s): LiChun Zhu, National Astronomical Observatories (China)

[Add To My Schedule](#) **FRIDAY 15 JUNE**[Show All Abstracts](#)**Session 18:  
Telescope Structures I**

Friday 15 June 2018

9:10 AM - 10:30 AM


Location: CC Level 1, Ballroom A

Session Chairs: [Emanuela Ciattaglia](#), European Southern Observatory (Germany) ; [Heather K. Marshall](#), National Solar Observatory (United States)**The Maunakea Spectroscopic Explorer (MSE) telescope mount**

Paper 10700-63

Time: 9:10 AM - 9:30 AM


Author(s): Gaizka Murga Llano, IDOM Ingenieria y Consultoria S.A. (Spain); Kei Szeto, Steven E. Bauman, Canada-France-Hawaii Telescope (United States); Rafael Urrutia, IDOM Ingenieria y Consultoria S.A. (Spain); Richard Murowinski, Canada-France-Hawaii Telescope (United States); Armando Bilbao, IDOM Ingenieria y Consultoria S.A. (Spain); Thomas E. Lorentz, IDOM (United States)

[Add To My Schedule](#) **LSST telescope mount assembly: construction status (Conference Presentation)**

Paper 10700-64

Time: 9:30 AM - 9:50 AM


Author(s): Shawn P. Callahan, National Optical Astronomy Observatory (United States); Alfredo Orden Martinez, Manuel Perezagua Aguado, GHESA Ingeniería y Tecnología, S.A. (Spain); Francisco M. Manuel Romero Casas, José Carlos González González, Ricardo Rodríguez Ojeda, Asturfeito S.A. (Spain)

[Add To My Schedule](#) **DAG 4m telescope: assembly, integration and testing**

Paper 10700-65

Time: 9:50 AM - 10:10 AM


Author(s): Olivier Pimay, Grégory Lousberg, Eric Gabriel, AMOS Ltd. (Belgium); Gianpietro Marchiori, Andrea Busatta, EIE Group s.r.l. (Italy); Cahit Yeşilyaprak, Atatürk Üniv. (Turkey); Onur Keskin, Isik Üniv. (Turkey)

[Add To My Schedule](#) **Iranian National Observatory: mechanical design of the 3.4m optical telescope**

Paper 10700-66

Time: 10:10 AM - 10:30 AM

Author(s): Zohreh Azizi, Habib G. Khosroshahi, Masoud Bidar, Hooshdad Jenab, Ali Karami, Mahdi Saeidifar, Iranian National Observatory (Iran, Islamic Republic of)

[Add To My Schedule](#) **Coffee Break 10:30 AM - 11:00 AM**


## Session 19: Telescope Structures II

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Friday 15 June 2018

11:00 AM - 12:20 PM

Location: CC Level 1, Ballroom A

Session Chairs: [Frank W. Kan](#), Simpson Gumpertz & Heger Inc. (United States) ; [Jason Spyromilio](#), European Southern Observatory (Germany) 


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### Developing the ngDVA 15m composite reflector concept

Paper 10700-67

Time: 11:00 AM - 11:20 AM

Author(s): Gordon E. Lacy, NRC - Herzberg Astronomy & Astrophysics (Canada); Mohammad N. Islam, National Research Council Canada (Canada)


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### ELT design status: the most powerful ground telescope

Paper 10700-68

Time: 11:20 AM - 11:40 AM

Author(s): Gianpietro Marchiori, Francesco Rampini, Leonardo Ghedin, Riccardo Bressan, EIE Group s.r.l. (Italy)


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### Design and characterization of a balloon-borne diffraction-limited submillimeter telescope platform for BLAST-TNG

Paper 10700-69

Time: 11:40 AM - 12:00 PM

Author(s): Nathan P. Lourie, Francisco E. Angile, Univ. of Pennsylvania (United States); Peter Ashton, Northwestern Univ. (United States); Brian Catanzaro, CFE Services (United States); Mark Devlin, Simon R. Dicker, Univ. of Pennsylvania (United States); Joy Didier, The Univ. of Southern California (United States); Bradley Dober, National Institute of Standards and Technology (United States); Laura M. Fissel, National Radio Astronomy Observatory (United States); Nicholas Galitzki, Univ. of California, San Diego (United States); Samuel Gordon, Arizona State Univ. (United States); Jeffrey Klein, Ian Lowe, Univ. of Pennsylvania (United States); Philip Mauskopf, Arizona State Univ. (United States); Federico Nati, Univ. of Pennsylvania (United States); Giles Novak, Northwestern Univ. (United States); Javier Romualdez, University of Toronto Institute for Aerospace Studie (Canada); Juan D. Soler, Max-Planck-Institut für Astronomie (Germany); Paul Williams, Northwestern Univ. (United States)


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### Medium size telescopes for the Cherenkov Telescope Array

Paper 10700-70

Time: 12:00 PM - 12:20 PM

Author(s): Markus Garczarczyk, Deutsches Elektronen-Synchrotron (Germany)

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