## Contents

<table>
<thead>
<tr>
<th>Session</th>
<th>ATLAST I</th>
</tr>
</thead>
<tbody>
<tr>
<td>9602 02</td>
<td>The JWST science instrument payload: mission context and status [9602-1]</td>
</tr>
<tr>
<td>9602 04</td>
<td>TECHBREAK: a technology foresight activity for the European Space Agency points the way to future space telescopes [9602-3]</td>
</tr>
<tr>
<td>9602 05</td>
<td>A future large-aperture UVOIR space observatory: reference designs [9602-4]</td>
</tr>
<tr>
<td>9602 06</td>
<td>SLS launched missions concept studies for LUVOIR mission [9602-5]</td>
</tr>
<tr>
<td>9602 07</td>
<td>An evolvable space telescope for future astronomical missions 2015 update [9602-6]</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Session</th>
<th>ATLAST II</th>
</tr>
</thead>
<tbody>
<tr>
<td>9602 08</td>
<td>Overview and accomplishments of advanced mirror technology development phase 2 (AMTD-2) project [9602-7]</td>
</tr>
<tr>
<td>9602 09</td>
<td>Technology development for the Advanced Technology Large Aperture Space Telescope (ATLAST) as a candidate large UV-Optical-Infrared (LUVOIR) surveyor [9602-8]</td>
</tr>
<tr>
<td>9602 0A</td>
<td>ATLAST ULE mirror segment performance analytical predictions based on thermally induced distortions [9602-9]</td>
</tr>
<tr>
<td>9602 0B</td>
<td>Correction of an active space telescope mirror using a gradient approach and an additional deformable mirror [9602-10]</td>
</tr>
<tr>
<td>9602 0C</td>
<td>Optical design of the camera for Transiting Exoplanet Survey Satellite (TESS) [9602-11]</td>
</tr>
<tr>
<td>9602 0D</td>
<td>ATLAST detector needs for direct spectroscopic biosignature characterization in the visible and near-IR [9602-12]</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Session</th>
<th>UNCONVENTIONAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>9602 0E</td>
<td>Optics of a granular imaging system (i.e. “orbiting rainbows”) [9602-13]</td>
</tr>
<tr>
<td>9602 0F</td>
<td>Design and test of a novel solar imaging payload for small satellites [9602-15]</td>
</tr>
</tbody>
</table>
### SESSION 4 EUCLID

| 9602 0G | Characterization of Euclid-like H2RG IR detectors for the NISP instrument [9602-17] |
| 9602 0H | Preliminary results on the EUCLID NISP stray-light and ghost analysis [9602-18] |

### SESSION 5 TEL TECH

| 9602 0I | Aluminum mirror coatings for UVOIR telescope optics including the far UV [9602-19] |
| 9602 0K | A global shutter CMOS image sensor for hyperspectral imaging [9602-21] |
| 9602 0M | Models for dynamic correlated charge collection effects in thick CCDs [9602-22] |
| 9602 0N | Proton-induced Random Telegraph Signal in the CMOS imaging sensor for JANUS, the visible imaging telescope on JUICE [9602-23] |
| 9602 0O | Proton irradiation of the CIS115 for the JUICE mission [9602-24] |

### SESSION 6 SMALLSATS AND SUB-ORBITAL

| 9602 0P | Optical design and tolerance analysis of a reflecting telescope for CubeSat [9602-25] |
| 9602 0Q | Analysis of an optical relay system and integration into a satellite imager [9602-26] |

### SESSION 7 WFIRST / AFTA

| 9602 0U | Challenges in photon-starved space astronomy in a harsh radiation environment using CCDs [9602-31] |
| 9602 0X | Spectral performance of WFIRST/AFTA bandpass filter prototypes [9602-34] |

### POSTER SESSION

| 9602 0Y | EUCLID detector system demonstrator model: a first demonstration of the NISP detection system [9602-16] |
Authors

Numbers in the index correspond to the last two digits of the six-digit citation identifier (CID) article numbering system used in Proceedings of SPIE. The first four digits reflect the volume number. Base 36 numbering is employed for the last two digits and indicates the order of articles within the volume. Numbers start with 00, 01, 02, 03, 04, 05, 06, 07, 08, 09, 0A, 0B...0Z, followed by 10-1Z, 20-2Z, etc.

Agrawal, Brij N., 0B
Allanwood, E. A. H., 0N, 0O
Allen, Matthew R., 0B
Andersen, Geoff, 0F
Angarita-Jaimes, Diego, 0Q
Asmolova, Olha, 0F
Ayala, Michael, 0I
Balasubramanian, Kunjithapatham, 09, 0I
Baldauf, Brian, 07
Barbier, R., 0G, 0Y
Basinger, Scott A., 0E
Beaumont, F., 0Y
Bender, Ralf, 0H
Bolcar, Matthew R., 09, 0I
Breckinridge, James B., 07
Burgon, Ross, 0U
Bush, Nathan, 0U
Callat, L., 0G
Chen, Chia-Ray, 0P
Chen, Ching-Wei, 0P
Chrisp, Michael, 0C
Clampin, Mark, 09, 0D
Clark, Kristin, 0C
Clarke, Andrew, 0U
Clément, J. C., 0G, 0Y
Cohen, Lester M., 0A
Collins, Christine, 05
Contentt, David, 0X
Crooke, Julie, 09
Cullum, Martin, 04
Cunningham, Colin, 04
Dalley, Dean R., 07
Dalpiaz, Michael, 0C
Del Hoyo, Javier, 0I
Detsis, Emmanuel, 04
Dickinson, Thomas, 0F
Domagal-Goldman, Shawn D., 0D
Dryer, Ben J., 0K
Ealet, A., 0G, 0Y
Eisenhower, Michael J., 0A
Fabron, C., 0Y
Feinberg, Lee D., 05, 09, 0A
Ferril, S., 0G, 0Y
Flannery, Martin R., 07
Fryer, Martin, 0K
Garcia, J., 0Y
Geis, Norbert, 0H
Gillard, W., 0G, 0Y
Gow, Jason P. D., 0N, 0O, 0U
Grassi, E., 0Y
Greenhouse, Matthew A., 02
Grupp, Frank, 0H
Hall, David J., 0K, 0U
Hennessy, John, 0I
Henry, David, 04
Holland, Andrew D., 0K, 0M, 0N, 0O, 0U
Hopkins, Randall C., 06
Huang, Winson, 0X
Jones, Andrew, 05
Jordan, Douglas, 0M
Kamoun, Paul, 04
Kim, Jae Jun, 0B
Kotov, Ivan V., 0M
Kruk, Jeffrey, 0X
Kubik, B., 0G, 0Y
Lagier, P., 0G
Leese, M., 0N, 0O
Lennon, Joseph, 0C
Lillie, Charles F., 07
Liu, Alice, 05
Lobb, Dan, 0Q
MacEwen, Howard A., 07
Maciaszek, T., 0G, 0Y
Makovski, David, 07
Maldonado, Carlos, 0F
Matthews, Gary W., 0A
McBain, Michael W., 0D
McHarg, Matthew G., 0F
Miller, Kevin H., 0X
Moseley, S. H., 0D
Murray, Neil, 0U
Niclas, M., 0G, 0Y
Nikzad, Shouleh, 0I
Nissen, Joel A., 0A
Norup Sorensen, A., 0G
Noui, Louahab, 0Q
Palacios, David, 0E
Park, Sang C., 0A
Peabody, Horne L., 0A
Pike, Andrew, 0K
Polidan, Ronald S., 07
Postman, Marc, 09
Pratlong, Jérôme, 0K
Prieto, Eric, 0G, 0H, 0Y
Primeau, Brian, 0C
Quadrelli, Marco B., 0E
Quijada, Manuel A., 09, 0I, 0X
Quiller, Trey, 0F
Rafanelli, Gerald L., 07
Raouf, Nasrat, 0I
Rauscher, Bernard J., 09, 0D
Redding, David, 05, 09
Rioux, Norman, 05, 09
Rodriguez-Ferreira, J., 0G
Scowen, Paul, 0I
Secoun, A., 0G, 0Y
Seide, Laurie, 0X
Serra, B., 0G, 0Y
Shaklan, Stuart, 09, 0I
Smadja, G., 0G, 0Y
Smith, Dave, 0Q
Soman, M. R., 0N, 0O
Stahl, H. Philip, 05, 06, 08, 09
Stahle, Carl, 09, 0D
Stark, Christopher C., 0D
Stefanov, Konstantin D., 0K, 0M, 0N, 0O
Sturm, James, 05
Swartzlander, Grover A., Jr., 0E
Swings, Jean-Pierre, 04
Thronson, Harley A., 05, 09, 0D
Tilquin, A., 0G
Tortora, Jean-Jacques, 04
Weatherill, Daniel P., 0M
Winstone, G. P., 0N, 0O
Wood, Trevor, 0Q
Worms, Jean-Claude, 04
Conference Committee

Program Track Chair

Oswald H. W. Siegmund, University of California, Berkeley
(United States)

Conference Chairs

Howard A. MacEwen, Reviresco LLC (United States)
James B. Breckinridge, College of Optical Sciences, The University of Arizona (United States) and California Institute of Technology (United States)

Conference Program Committee

Suzanne Casement, Northrop Grumman Aerospace Systems (United States)
Colin R. Cunningham, United Kingdom Astronomy Technology Center (United Kingdom)
Lee D. Feinberg, NASA Goddard Space Flight Center (United States)
Matthew J. Griffin, Cardiff University (United Kingdom)
David Leisawitz, NASA Goddard Space Flight Center (United States)
Charles F. Lillie, Lillie Consulting LLC (United States)
Jean-Pierre Maillard, Institut d’Astrophysique de Paris (France)
Gary W. Matthews, Exelis Geospatial Systems (United States)
Mark J. McCaughrean, European Space Research and Technology Center (Netherlands)
Jacobus M. Oschmann Jr., Ball Aerospace and Technologies Corporation (United States)
Marc Postman, Space Telescope Science Institute (United States)
David C. Redding, Jet Propulsion Laboratory (United States)
Bernard D. Seery, NASA Goddard Space Flight Center (United States)
H. Philip Stahl, NASA Marshall Space Flight Center (United States)

Session Chairs

1. ATLAST I
   Matthew R. Bolcar, NASA Goddard Space Flight Center (United States)

2. ATLAST II
   H. Philip Stahl, NASA Marshall Space Flight Center (United States)
3 Unconventional
   David C. Redding, Jet Propulsion Laboratory (United States)

4 EUCLID
   Howard A. MacEwen, Reviresco LLC (United States)

5 Tel Tech
   Gary W. Matthews, Harris Corporation (United States)

6 SmallSats and Sub-Orbital
   Suzanne Casement, Northrop Grumman Aerospace Systems (United States)

7 WFIRST / AFTA
   Michael Chrisp, MIT Lincoln Laboratory (United States)