

Monday, January 13, 2025

7:00 AM

Session Chairs

Chesapeake 7-8

7:00 AM - 8:00 AM

7:30 AM

40+ E
Lounge

Speaker Ready
Room

AAS
Registration

Attendee Event
Chesapeake 3
7:30 AM - 6:00 PM

Attendee Event
National Harbor 14-15
7:30 AM - 5:00 PM

Attendee Event
Pre Function Area
7:30 AM - 6:00 PM

8:00 AM

Quiet Room

Attendee Event
National Harbor 1
8:00 AM - 6:00 PM

101

Plenary Lecture: Welcome Address by AAS President,
Dara Norman (NSF NOIRLab)

Plenary
Potomac Ballroom AB
8:00 AM - 8:20 AM

8:20 AM

102

Fred Kavli Plenary Lecture: The Terrestrial Worlds of Low-Mass Stars, Dave
Charbonneau (Harvard University)

Plenary
Potomac Ballroom AB
8:20 AM - 9:10 AM



9:00 AM

NASA's
Astrophysics
With Equity:
Surmounting
Obstacles to
Membership
Science Analysis
Group
(AWESOM SAG)

Splinters
Annapolis 1-2
9:00 AM-
10:30 AM

Astronomers
Turned Data
Scientists
(ATDS 7)

Splinters
Annapolis 3-4
9:00 AM -
4:00 PM

FREE
AM Poster
Session &
Coffee
Break

Attendee Event
Exhibit Hall
CD
9:00 AM -
10:00 AM

103
The Solar
System

iPoster
Exhibit Hall
CD
9:00 AM -
10:00 AM

104
Star Clusters



iPoster
Exhibit Hall
CD
9:00 AM-
10:00 AM

105
Solar &
Heliospheric
Physics
Contributions

iPoster
Exhibit Hall
CD
9:00 AM -
10:00 AM

106
AGN/Quasars I

iPoster
Exhibit Hall
CD
9:00 AM -
10:00 AM

107 Supernovae I iPoster Exhibit Hall CD 9:00 AM - 10:00 AM	108 Models of Inclusive Astronomy iPoster Exhibit Hall CD 9:00 AM - 10:00 AM	109 Galactic and Stellar Dynamics  iPoster Exhibit Hall CD 9:00 AM - 10:00 AM	110 Interstellar Medium iPoster Exhibit Hall CD 9:00 AM - 10:00 AM	111 Low & Intermediate-Mass Pulsating Stars  iPoster Exhibit Hall CD 9:00 AM - 10:00 AM	112 Photometric & Spectroscopic Software iPoster Exhibit Hall CD 9:00 AM - 10:00 AM	133 Simulations & Simulated Observations iPoster Exhibit Hall CD 9:00 AM - 10:00 AM
115 Reflections on the 2024 Eclipse iPoster Exhibit Hall CD 9:00 AM - 10:00 AM				116 Open Science iPoster Exhibit Hall CD 9:00 AM - 10:00 AM		
9:30 AM						
What Should I do with my Life? Create Your Unicorn Career Splinters Baltimore 1-2 9:30 AM - 10:30 AM				'Get Involved with PRIMA: NASA Probe Explorer's Far-IR Observatory Concept' Exhibitor Theater Pre-Function CD 9:30 AM - 10:00 AM		
10:00 AM						
Roman Spectroscopy Data Challenge (Part 1/3) Splinters Chesapeake F 10:00 AM-11:30 AM	ExoCore: An Open Science Curriculum for Enhanced Reproducibility & Equity in Exoplanet Research Splinters National Harbor 8 10:00 AM-12:00 PM	117 Extrasolar Planets: Transit I Oral Potomac Ballroom C 10:00 AM - 10:30 AM	118 Surveys and Data Analysis Across the Universe Oral Potomac 1-2 10:00 AM - 11:30 AM	119 Exoplanet Emission Spectra and Phase Curves Oral Potomac 3-4 10:00 AM - 11:30 AM	120 AI, ML, & Data Processing Oral Potomac 5-6 10:00 AM - 11:30 AM	

11:00 AM

25 Years of Chandra Science

Exhibitor Theater

Exhibit Hall CD

11:00 AM - 11:30 AM

11:15 AM

The Zwicky Transient Facility: Planning for LSST Year 1

Splinters

Chesapeake C

11:15 AM - 12:45 PM

11:30 AM

Slooh: The LIVE Online Telescope Platform for Education

Exhibitor Theater

Exhibit Hall CD

11:30 AM - 12:00 PM

11:40 AM

135

Plenary Lecture: Galaxy Evolution Eras Tour: The Formative Years of Star Formation and Supermassive Black Hole Growth, Alexandra Pope (University of Massachusetts Amherst)

Plenary

Potomac Ballroom AB

11:40 AM - 12:30 PM



12:30 PM

New Data Driven Classroom Investigations from
Rubin Observatory

Splinters

Chesapeake 7-8

12:30 PM - 3:30 PM

Networking for Introverts Who are Also
Nerds

Splinters

Chesapeake D/E

12:30 PM - 1:30 PM

12:45 PM

136

NASA Town Hall

Town Hall

Potomac Ballroom AB

12:45 PM - 1:45 PM

137

HAD Town Hall

Town Hall

Chesapeake A/B

12:45 PM - 1:45 PM

1:00 PM

CSWA Hackathon - Take Action for
Equity

Splinters
Chesapeake 6
1:00 PM - 3:15 PM

Beyond the Horizon: NASA Astrophysics Trivia
Challenge

Splinters
Annapolis 1-2
1:00 PM - 2:30 PM

Protecting Observatory Sites from the
Growing Satellite Constellation Interference

Exhibitor Theater
Exhibit Hall CD
1:00 PM - 1:30 PM

2:00 PM**121**

Cosmology I

138

Laboratory
Astrophysics
Division (LAD):
Contributions
to
JWST Studies of
Star Formation
& the
Interstellar
Medium

*Special
Session*
Potomac 1-2

**2:00 PM -
3:30 PM**

139

AGN/Quasars
II
(High-z)

Oral
Potomac
3-4

**2:00 PM -
3:30 PM**

140

AGN/Quasars
X (Dual
AGN/Machine-
learning)

Oral
Potomac
5-6

**2:00 PM -
3:30 PM**

141

ISM I

Oral
Maryland
Ballroom B

**2:00 PM -
3:30 PM**

142

YSOs II



Oral
Maryland
Ballroom D

**2:00 PM -
3:30 PM**

143

Working
Group for
International
Students &
Researchers
in Astronomy

*Special
Session*
National
Harbor 2

**2:00 PM -
3:30 PM**

144Space
Missions

Oral
National
Harbor 3

**2:00 PM -
3:30 PM**

145

Instrumentation:
Ground Based or
Airborne

Oral
National
Harbor 4

**2:00 PM -
3:30 PM**

146

Gravitational
Waves &
Multi-
Messenger
Astronomy I

Oral
National
Harbor 5

**2:00 PM -
3:30 PM**

147

Galaxies in
Cosmological
Simulations I

Oral
National
Harbor 6-7

**2:00 PM -
3:30 PM**

148

Theory of
Exoplanet
Atmosphere
Retrievals

Oral
National
Harbor 10

**2:00 PM -
3:30 PM**

150

Surveys,
Analysis, &
Results II

Oral
National
Harbor 12

**2:00 PM -
3:30 PM**

151

The Advanced
X-ray Imaging
Satellite (AXIS),
A Next
Generation X-
ray Satellite for
the 2030s and
Beyond

*Special
Session*
Chesapeake
4-5

**2:00 PM -
3:30 PM**



153 Recent Results in Astronomy Education Research <i>Special Session</i> Chesapeake G/H 2:00 PM - 3:30 PM	154 Stellar Evolution & Populations I <i>Oral</i> Maryland 1-2 2:00 PM - 3:30 PM	169 Solar & Solar System Topics <i>Oral</i> National Harbor 13 2:00 PM - 3:30 PM	170 Star Formation Across Diverse Environments, Recurrent Novae & Magnetic CVs <i>Oral</i> Chesapeake D/E 2:00 PM - 3:30 PM	171 Pulsars & Star Clusters III <i>Oral</i> Chesapeake J/K/L 2:00 PM - 3:30 PM	175 Exoplanet Direct Imaging Observations <i>Oral</i> Potomac Ballroom C 2:00 PM - 3:30 PM
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2:30 PM

Democratizing AI in Astronomy: the AAS WGAA ML Challenge

Splinters

Chesapeake C

2:30 PM - 4:00 PM

3:00 PM

The 2024 Women & Girls in Astronomy Program

Exhibitor Theater

Exhibit Hall CD

3:00 PM - 3:30 PM

3:40 PM

155

Plenary Lecture: Punching Back Asteroids: The Deflection of Dimorphos by the DART Mission, Jason Kalirai
(Johns Hopkins Applied Physics Laboratory)

Plenary

Potomac Ballroom AB

3:40 PM - 4:30 PM

4:40 PM

156

Plenary Lecture: Direct Observational Constraints on Planet Formation and Accretion, Kate Follette
(Amherst College)

Plenary

Potomac Ballroom AB

4:40 PM - 5:30 PM

5:30 PM

FREE Evening Poster Session Refreshment Break <i>Attendee Event</i> Exhibit Hall CD 5:30 PM - 6:30 PM	157 Laboratory Astrophysics <i>iPoster</i> Exhibit Hall CD 5:30 PM - 6:30 PM	158 Surveys, Analysis, & Results <i>iPoster</i> Exhibit Hall CD 5:30 PM - 6:30 PM	159 Tapestry of Surveys & Techniques in Big Data Astronomy <i>iPoster</i> Exhibit Hall CD 5:30 PM - 6:30 PM	160 Extrasolar Planets: Transit <i>iPoster</i> Exhibit Hall CD 5:30 PM - 6:30 PM	161 AGN/Quasars II <i>iPoster</i> Exhibit Hall CD 5:30 PM - 6:30 PM	162 Supernovae II <i>iPoster</i> Exhibit Hall CD 5:30 PM - 6:30 PM
	163 Stellar Atmospheres & Winds  <i>iPoster</i> Exhibit Hall CD 5:30 PM - 6:30 PM	164 Extrasolar Planets: Formation & Protoplanetary Disks <i>iPoster</i> Exhibit Hall CD 5:30 PM - 6:30 PM	165 Harnessing Artificial Intelligence for Advanced Statistical Inference in Astrophysics <i>iPoster</i> Exhibit Hall CD 5:30 PM - 6:30 PM	166 Supernova Remnants <i>iPoster</i> Exhibit Hall CD 5:30 PM - 6:30 PM	167 Astronomical Simulation Software <i>iPoster</i> Exhibit Hall CD 5:30 PM - 6:30 PM	168 Practice, Undergraduate Non-Science <i>iPoster</i> Pre-Function CD 5:30 PM - 6:30 PM

6:00 PM

The 100th Anniversary of Hubble Announcing the Discovery of the Universe

Splinters

Maryland Ballroom C

6:00 PM - 7:00 PM

6:30 PM

FREE Reception for Astronomy Educators – open to all! <i>Splinters</i> Maryland Ballroom A 6:30 PM - 7:45 PM	FREE An Evening with the Maunakea Observatories <i>Splinters</i> Potomac Ballroom D 6:30 PM - 8:00 PM	169 National Radio Astronomy Observatory <i>Town Hall</i> Potomac Ballroom C 6:30 PM - 8:30 PM
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8:00 PM

FREE Undergraduate Student Reception <i>Splinters</i> Maryland Ballroom A 8:00 PM - 9:30 PM

Tuesday, January 14, 2025

7:00 AM

Session Chair Breakfast (Invitation Only)

Chesapeake 7-8

7:00 AM - 8:00 AM

7:30 AM

40+ E
Lounge

Attendee Event
Chesapeake 3

7:30 AM - 6:00 PM

Speaker Ready
Room

Attendee Event
National Harbor 14-15

7:30 AM - 5:00 PM

AAS
Registration

Attendee Event
Pre Function Area

7:30 AM - 6:00 PM

8:00 AM

Quiet Room

Attendee Event
National Harbor 1

8:00 AM - 6:00 PM

8:10 AM

200

Plenary Lecture: From the Smallest Things to the Greatest Results – The Incredible Power of the Chandra X-ray Observatory, Dave Cooley (Trinity University and Eureka Scientific, Inc.)

Plenary
Potomac Ballroom AB

8:10 AM - 9:00 AM

9:00 AM

Project
Infrastructure
Teams for the
Roman Space
Telescope

Splinters

National
Harbor 13

**9:00 AM -
12:00 PM**

FREE

AM Poster
Session &
Coffee
Break

Attendee Event

Exhibit Hall
CD

**9:00 AM -
10:00 AM**

201
Instrumentation:
Space Missions

iPoster

Exhibit Hall
CD

**9:00 AM -
10:00 AM**

202
Molecular
Clouds, HII
Regions, ISM

iPoster

Exhibit Hall
CD

**9:00 AM -
10:00 AM**

203
HST & JWST

iPoster

Exhibit Hall
CD

**9:00 AM -
10:00 AM**

204
AGN/Quasars
III

iPoster

Exhibit Hall
CD

**9:00 AM -
10:00 AM**

205
Education
Research

iPoster

Exhibit Hall
CD

**9:00 AM -
10:00 AM**

206 New Perspectives on Protoplanetary Disks in the Era of JWST & the ALMA Wideband Sensitivity Upgrade iPoster Exhibit Hall CD 9:00 AM - 10:00 AM	207 Extrasolar Planets: Populations iPoster Exhibit Hall CD 9:00 AM - 10:00 AM	208 Developments in New & Existing Observing Facilities iPoster Exhibit Hall CD 9:00 AM - 10:00 AM	209 Space-Based Far-Infrared Science for the 2030s iPoster Exhibit Hall CD 9:00 AM - 10:00 AM	210 Cataclysmic Variables  iPoster Exhibit Hall CD 9:00 AM - 10:00 AM	The Polstar FUV Spectropolarimetry Mission Exhibitor Theater Exhibit Hall CD 9:00 AM - 9:30 AM
9:30 AM					
How to Apply for Jobs Splinters Baltimore 1-2 9:30 AM - 10:30 AM			Protecting our Skies & Our Careers: Engaging Environment and Conservation Organizations Exhibitor Theater Exhibit Hall CD 9:30 AM - 10:00 AM		
10:00 AM					
Advancing the Roman Coronagraph Instrument to Flight: Project Status & Coronagraph Community Participation Program Activities Splinters Chesapeake C 10:00 AM - 12:00 PM	Astrophysics Technology Development Success Cases Splinters Annapolis 1-2 10:00 AM - 11:30 AM	The Missing Link of Galaxy Growth: Direct Measurements of the Clouds and Gas within, Surrounding, & Between Galaxies Splinters Chesapeake F 10:00 AM - 3:00 PM	The Lunar Frontier: Advancing Interferometry & Multi-Messenger Astrophysics Splinters Maryland Ballroom D 10:00 AM - 3:30 PM	HEAD II: Quasi-periodic Signals from the Nuclei of External Galaxies: Observations, Theory, & Multi-Messenger Prospects High Energy Astrophysics Division (HEAD) Maryland 1-2 10:00 AM - 11:30 AM	211 Stellar Evolution & Populations II  Oral Potomac Ballroom C 10:00 AM - 11:30 AM
				212 DESI Year One Science Special Session Potomac 1-2 10:00 AM - 11:30 AM	

213 Physical of Exoplanet Clouds Oral Potomac 3-4 10:00 AM - 11:30 AM	214 Extrasolar Planets: Populations I Oral Potomac 5-6 10:00 AM - 11:30 AM	215 Exoplanet Transit Spectroscopy: Low-Mass Planets Oral Maryland Ballroom B 10:00 AM - 11:30 AM	216 Enabling Space-Based Far-Infrared Science in the 2030s with the Probe Far-Infrared Mission for Astrophysics (PRIMA) Special Session National Harbor 2 10:00 AM-11:30 AM	217 Simulations & Simulated Observations Oral National Harbor 3 10:00 AM - 11:30 AM	218 Policy & the Astronomical Sciences in 2025 Special Session National Harbor 4 10:00 AM - 11:30 AM	219 Analysis Techniques for Neutron Stars Oral National Harbor 5 10:00 AM - 11:30 AM
220 Supernovae II Oral National Harbor 6-7 10:00 AM - 11:30 AM	221 AGN/Quasars III (Variability) Oral National Harbor 10 10:00 AM - 11:30 AM	222 Star Clusters II Oral National Harbor 11 10:00 AM - 11:30 AM	223 Surveys, Analysis, & Results III Oral National Harbor 12 10:00 AM - 11:30 AM	224 New Perspectives on Protoplanetary Disks in the Era of JWST and the ALMA Wideband Sensitivity Upgrade Special Session Chesapeake 4-5 10:00 AM - 11:30 AM	225 HAD III: Contributed Oral Presentations Historical Astronomy Division (HAD) Meeting Chesapeake A/B 10:00 AM - 11:30 AM	226 CSMA Presents Astronomy's Poverty Problem – Survey Results Special Session Chesapeake G/H 10:00 AM - 11:30 AM
227 HEAD II - Quasi-Periodic Signals from the Nuclei of External Galaxies: Observations, Theory, & Multi-Messenger Prospects Special Session Maryland 1-2 10:00 AM - 11:30 AM		266 Gamma-Ray & Radio Analysis Software, Strong & Weak Gravitational Lensing Oral National Harbor 13 10:00 AM - 11:30 AM		267 Astronomy Outreach: Successes & Resources Oral Chesapeake D/E 10:00 AM - 11:30 AM		268 Circumstellar Disks I Oral Chesapeake J/K/L 10:00 AM - 11:30 AM

10:30 AM

Deepening Broader Impacts: Mentorship, DEI, &
Career Advancement

Splinters

Chesapeake 7-8

10:30 AM - 12:00 PM

IPAC Overview: Exploring Projects, Culture, & Career
Opportunities

Exhibitor Theater

Exhibit Hall CD

10:30 AM - 11:00 AM

11:00 AM

The U.S. Naval Observatory – A Year in Review, & the Year Ahead

Exhibitor Theater

Exhibit Hall CD

11:00 AM - 11:30 AM

11:40 AM

228

Henry Norris Russell Lectureship: The Cosmic Triangle: Probing the Dark Side of the Universe, Neta A.
Bahcall (Princeton University)

Plenary

Potomac Ballroom AB

11:40 AM - 12:30 PM

12:30 PM

How to Interview to Get the Job

Splinters

Baltimore 1-2

12:30 PM - 1:30 PM

12:45 PM

229

NSF Town Hall

Town Hall

Potomac Ballroom AB

12:45 PM - 1:45 PM

230

Rubin Observatory Town Hall

Town Hall

National Harbor 2

12:45 PM - 1:45 PM

231

STScI Town Hall

Town Hall

National Harbor 4

12:45 PM - 1:45 PM

1:00 PM

Dark Energy Survey Results & Methods with Applications to Other Surveys

Splinters

Chesapeake C

1:00 PM - 3:00 PM

1:30 PM

The Astronomical Observatories of the Canary Islands

Exhibitor Theater

Exhibit Hall CD

1:30 PM - 2:00 PM

The Astronomical Observatories of the Canary Islands

Exhibitor Theater

Exhibit Hall CD

1:30 PM - 2:00 PM

The Astronomical Observatories of the Canary Islands

Exhibitor Theater

Exhibit Hall CD

1:30 PM - 2:00 PM

The Astronomical Observatories of the Canary Islands

Exhibitor Theater

Exhibit Hall CD

1:30 PM - 2:00 PM

2:00 PM

[illegible]

241 The Euclid Mission: First Results and Opportunities for Archival Research <i>Special Session</i> National Harbor 10 2:00 PM - 3:30 PM	242 Cosmology I <i>Oral</i> National Harbor 11 2:00 PM - 3:30 PM	243 Surveys, Analysis, & Results IV <i>Oral</i> National Harbor 12 2:00 PM - 3:30 PM	244 The TEAM-UP Report: A Five-Year Retrospective for the Astronomy Community <i>Special Session</i> Chesapeake 4-5 2:00 PM - 3:30 PM	245 - Celebrating Bridge & Support Programs for Astronomy & Astrophysics Students <i>Special Session</i> Chesapeake G/H 2:00 PM - 3:30 PM	246 - Inclusion & Engagement in Astronomy Across the World <i>Oral</i> Maryland 1-2 2:00 PM - 3:30 PM	263 Space Missions II <i>Oral</i> National Harbor 13 2:00 PM - 3:30 PM
264 Supporting the Profession & Community Updates <i>Oral</i> Chesapeake D/E 2:00 PM - 3:30 PM				265 Exoplanet Direct Imaging Techniques <i>Oral</i> Chesapeake J/K/L 2:00 PM - 3:30 PM		
2:30 PM Data Stories, Data Tools, & Data Labs for Learning from the Center for Astrophysics <i>Exhibitor Theater</i> Exhibit Hall CD 2:30 PM - 3:00 PM						
3:30 PM Beyond Academe Roundtable Discussions <i>Splinters</i> Exhibit Hall CD 3:30 PM - 4:30 PM						
3:40 PM 247 <u>Plenary Lecture:</u> A Detector Backstory: How Silicon Detectors Came to Enable Space Missions, Shouleh Nikzad (Jet Propulsion Laboratory) <i>Plenary</i> Potomac Ballroom AB 3:40 PM - 4:30 PM						
4:00 PM NASA Postdoctoral Program Meet and Greet <i>Splinters</i> Chesapeake 7-8 4:00 PM - 5:00 PM						

4:40 PM							
248 <u>Annie Jump Cannon Prize Lecture:</u> The Icy Origins of Planetary Systems, Jenny Bergner (University of California, Berkley) Potomac Ballroom AB <i>Plenary</i> 4:40 PM- 5:30 PM							
5:30 PM							
FREE Evening Poster Session Refreshment Break Attendee Event Exhibit Hall CD	 249 Multiple Star Systems I <i>iPoster</i> Exhibit Hall CD 5:30 PM - 6:30 PM	250 Cosmology <i>iPoster</i> Exhibit Hall CD 5:30 PM - 6:30 PM	251 Dwarf & Irregular Galaxies <i>iPoster</i> Exhibit Hall CD 5:30 PM - 6:30 PM	252 AGN/Quasars IV <i>iPoster</i> Exhibit Hall CD 5:30 PM - 6:30 PM	253 JWST & High-z Galaxies <i>iPoster</i> Exhibit Hall CD 5:30 PM - 6:30 PM	254 Circumstellar Disks <i>iPoster</i> Exhibit Hall CD 5:30 PM - 6:30 PM	
	255 Dark & Quiet Skies: Recent Developments, Environmental Impacts, and Pathways Forward <i>iPoster</i> Exhibit Hall CD 5:30 PM - 6:30 PM	256 Direct Imaging of Black Holes & Their Jets: Recent Results & Future Prospects <i>iPoster</i> Exhibit Hall CD 5:30 PM - 6:30 PM	257 White Dwarfs  <i>iPoster</i> Exhibit Hall CD 5:30 PM - 6:30 PM	258 Elliptical Galaxies <i>iPoster</i> Exhibit Hall CD 5:30 PM - 6:30 PM	259 Image Analysis <i>iPoster</i> Exhibit Hall CD 5:30 PM - 6:30 PM	260 X-ray Astronomy Software <i>iPoster</i> Exhibit Hall CD 5:30 PM - 6:30 PM	261 Practice Upper Level Undergraduate & Other Topics <i>iPoster</i> Exhibit Hall CD 5:30 PM - 6:30 PM
	270 HAD IV: Contributed iPoster Presentations <i>iPoster</i> Exhibit Hall CD 5:30 PM - 6:30 PM			271 Celebrating Bridge & Support Programs for Astronomy & Astrophysics Students <i>iPoster</i> Exhibit Hall CD 5:30 PM - 6:30 PM			
6:00 PM							
FREE	COMPASSE Meet & Greet <i>Splinters</i> Chesapeake 6 6:00 PM - 8:00 PM			FREE	NASA's Roman Technology Fellowship Program <i>Splinters</i> Maryland Ballroom C 6:00 PM - 7:30 PM		

6:30 PM			
FREE Exploring Partnerships with the Canada-France- Hawai'i Telescope <i>Splinters</i> Chesapeake F 6:30 PM - 8:00 PM	AAS Agents/Chairs Appreciation Reception <i>Splinters</i> National Harbor 8 6:30 PM - 7:30 PM	40+E, Fellows, and Friends Reception <i>Splinters</i> Potomac Ballroom D 6:30 PM - 7:30 PM	262 Nancy Grace Roman Space Telescope <i>Town Hall</i> National Harbor 11 6:30 PM - 7:30 PM
7:00 PM			
FREE SGMA Meet & Greet for LGBTIA Members & Students <i>Splinters</i> Maryland Ballroom A 7:00 PM - 8:30 PM	HEAD Social & Business Meeting <i>Splinters</i> Maryland 1-2 7:00 PM - 9:00 PM		

Wednesday, January 15, 2025		
7:00 AM		
Session Chair Breakfast (Invitation Only) <i>Session Chairs</i> Chesapeake 7-8 7:00 AM - 8:00 AM		
7:30 AM		
40+ E Lounge <i>Attendee Event</i> Chesapeake 3 7:30 AM - 6:00 PM	Speaker Ready Room <i>Attendee Event</i> National Harbor 14-15 7:30 AM - 5:00 PM	AAS Registration <i>Attendee Event</i> Pre Function Area 7:30 AM - 5:00 PM
Wed., 8:00 AM		
Quiet Room <i>Attendee Event</i> National Harbor 1 8:00 AM - 6:00 PM		
300 <u>HEAD Bruno Rossi Prize Lecture:</u> Martin Weisskopf (NASA Marshall Space Flight Center) and Paolo Soffitta (INAF-IAPS) <i>Plenary</i> Potomac Ballroom AB 8:00 AM - 9:00 AM		

9:00 AM							
FREE AM Poster Session and Coffee Break Attendee Event Exhibit Hall CD 9:00 AM - 10:00 AM	301 Strong & Weak Gravitational Lensing iPoster Exhibit Hall CD 9:00 AM - 10:00 AM	302 Instrumentation: Ground Based or Airborne iPoster Exhibit Hall CD 9:00 AM - 10:00 AM	303 Gravitational Waves & Multi-Messenger Astronomy iPoster Exhibit Hall CD 9:00 AM - 10:00 AM	304 Public Outreach iPoster Exhibit Hall CD 9:00 AM - 10:00 AM	305 Habitable Worlds Observatory & Roman Space Telescope iPoster Exhibit Hall CD 9:00 AM - 10:00 AM	306 Theory of Exoplanet Atmospheres iPoster Exhibit Hall CD 9:00 AM - 10:00 AM	
	307 Dust iPoster Exhibit Hall CD 9:00 AM - 10:00 AM	308 Hot Cores, Protostars & YSOs  iPoster Exhibit Hall CD 9:00 AM - 10:00 AM	309 Asteroseismology  iPoster Exhibit Hall CD 9:00 AM - 10:00 AM	310 Detection & Characterization of Quasar Absorption Lines iPoster Exhibit Hall CD 9:00 AM - 10:00 AM	311 Galaxies in Cosmological Simulations iPoster Exhibit Hall CD 9:00 AM - 10:00 AM		
	9:30 AM						
	Negotiation for Nerds: How to Evaluate a Job Offer & Self-Advocate Splinters Baltimore 1-2 9:30 AM - 10:30 AM			Exploring the Radio Sky with the DSA- 2000 & the ngVLA Splinters Maryland 1-2 9:30 AM - 11:00 AM			
10:00 AM							
Maximizing Science with Roman-Rubin Data Synergies Splinters Annapolis 1-2 10:00 AM - 11:30 AM	312 NASA's Habitable Worlds Observatory Special Session Potomac Ballroom C 10:00 AM - 11:30 AM	313 Emission & Absorption in the Circumgalactic Medium Oral Potomac 1-2 10:00 AM - 11:30 AM	314 Theory of Exoplanet Atmospheres Oral Potomac 3-4 10:00 AM - 11:30 AM	315 Extrasolar Planets: Populations III Oral Potomac 5-6 10:00 AM - 11:30 AM	316 Exoplanet Transit Spectroscopy & Imaging: Giant Planets Oral Maryland Ballroom C 10:00 AM - 11:30 AM	317 ISM III Oral Maryland Ballroom D 10:00 AM - 11:30 AM	



12:30 PM						
Create Belonging by Combatting Impostor Syndrome <i>Splinters</i> Baltimore 1-2 12:30 PM - 1:30 PM			Opportunities at the Center for Astrophysics <i>Exhibitor Theater</i> Exhibit Hall CD 12:30 PM - 1:00 PM			
12:45 PM						
332 AAS Task Force on the Use of AI in Astronomy <i>Town Hall</i> National Harbor 2 12:45 PM - 1:45 PM			333 NSF NOIRLab Town Hall <i>Town Hall</i> National Harbor 4 12:45 PM - 1:45 PM			
1:00 PM						
Community Models of Astronomy & Mutual Stewardship Program Implementation <i>Splinters</i> Chesapeake A/B 1:00 PM - 4:00 PM	Panel on Inclusion and Mentoring Plans for Funding Agencies <i>Splinters</i> Chesapeake C 1:00 PM - 2:30 PM	NASA's Future Innovations in Gamma Rays (FIG SAG) <i>Splinters</i> Annapolis 1-2 1:00 PM - 2:30 PM	GUSTO: A Balloon-Borne NASA Explorer Mission to Investigate the Life Cycle of the Interstellar Medium <i>Splinters</i> Annapolis 3-4 1:00 PM - 2:30 PM	The Future of the Event Horizon Telescope <i>Exhibitor Theater</i> Exhibit Hall CD 1:00 PM - 1:30 PM		
1:30 PM						
The Black Hole Explorer: Imaging Black Holes from Space <i>Exhibitor Theater</i> Exhibit Hall CD 1:30 PM - 2:00 PM						
2:00 PM						
Enhancing the Science of the Roman Space Telescope with Simulations <i>Splinters</i> Baltimore 1-2 2:00 PM - 3:30 PM	Fundamental Physics and New Messengers <i>Splinters</i> Maryland Ballroom B 2:00 PM - 3:30 PM	Transforming Astronomy in the Era of Big Data: The Role of AI & AstroAI <i>Exhibitor Theater</i> Exhibit Hall CD 2:00 PM - 3:30 PM	334 Extrasolar Planets: Transit III <i>Oral</i> Potomac C 2:00 PM - 3:30 PM	335 Quasars Absorbers Probing Intergalactic Gas <i>Oral</i> Potomac 1-2 2:00 PM - 3:30 PM	336 Extrasolar Planets: Formation and Protoplanetary Disks I <i>Oral</i> Potomac 3-4 2:00 PM - 3:30 PM	337 Extrasolar Planets: Populations IV <i>Oral</i> Potomac 5-6 2:00 PM - 3:30 PM

338 Time Domain Insights from the Roman Space Telescope Special <i>Special Session</i> National Harbor 2 2:00 PM - 3:30 PM	339 Stars, Cool Dwarfs, Brown Dwarfs III  <i>Oral</i> National Harbor 3 2:00 PM - 3:30 PM	340 Inclusive Mentoring of the Next Generation of Astronomers <i>Oral</i> National Harbor 4 2:00 PM - 3:30 PM	341 Pulsating Neutron Stars  <i>Oral</i> National Harbor 5 2:00 PM - 3:30 PM	342 Multiple Star Systems I  <i>Oral</i> National Harbor 6-7 2:00 PM - 3:30 PM	343 Protostars and Their Environments  <i>Oral</i> National Harbor 10 2:00 PM - 3:30 PM	344 Cosmology III <i>Oral</i> National Harbor 11 2:00 PM - 3:30 PM
345 AGN/Quasars VI (Low-z) <i>Oral</i> National Harbor 12 2:00 PM - 3:30 PM	346 Interstellar Medium & Galactic Center <i>Oral</i> National Harbor 13 2:00 PM - 3:30 PM	347 Open Science: NASA Astrophysics in the Roman Era <i>Special Session</i> Chesapeake 4-5 2:00 PM - 3:30 PM	348 The Impact of Identity in Space Science Advancement <i>Special Session</i> Chesapeake G/H 2:00 PM - 3:30 PM	349 Gravitational Waves & Multi- Messenger Astronomy III <i>Oral</i> Maryland 1-2 2:00 PM - 3:30 PM	365 Dwarf & Irregular Galaxies I <i>Oral</i> Chesapeake D/E 2:00 PM - 3:30 PM	366 Relativistic Astrophysics & Black Holes <i>Oral</i> Chesapeake J/K/L 2:00 PM - 3:30 PM
367 Extrasolar Planets: Radial Velocities and Modeling <i>Oral</i> TBD 3 2:00 PM - 3:30 PM				326 Ethics Working Group Listening Session <i>Special Session</i> Chesapeake 4-5 2:00 PM - 3:30 PM		
2:30 PM						
La Palma & the ORM: the Cherenkov Telescope Array Observatory at the Northern Hemisphere <i>Exhibitor Theater</i> Exhibit Hall CD 2:30 PM - 3:00 PM						

3:00 PM

Customize the OpenStax Astronomy Text with Expert TA's eBook Editor

Exhibitor Theater

Exhibit Hall CD

3:00 PM - 3:30 PM

3:40 PM

350

Plenary Lecture: Revealing the Solar Neighborhood's Diversity and the Milky Way's Substellar Halo, Aaron Meisner (NSF NOIRLab)

Plenary

Potomac Ballroom AB



3:40 PM - 4:30 PM

4:40 PM

351

Newton Lacy Pierce Prize Lecture: The Evolution, Influence, and Ultimate Fate of Massive Stars, Maria Drout (University of Toronto)

Plenary

Potomac Ballroom AB



4:40 PM - 5:30 PM

5:30 PM

FREE

Evening
Poster
Session
Refreshment
Break

Attendee Event
Exhibit Hall CD

**5:30 PM -
6:30 PM**

352
Multiple Star
Systems II

iPoster

Exhibit Hall
CD

**5:30 PM -
6:30 PM**

353
Stellar
Evolution &
Populations

iPoster

Exhibit Hall
CD

**5:30 PM -
6:30 PM**

354
Transients &
Time-Domain
Astronomy

iPoster

Exhibit Hall
CD

**5:30 PM -
6:30 PM**

355
AGN/Quasars
VI

iPoster

Exhibit Hall
CD

**5:30 PM -
6:30 PM**

356
Machine
Learning
Methods

iPoster

Exhibit Hall
CD

**5:30 PM -
6:30 PM**

357
YSOs, Very
Young Stars, T
Tauri Stars, H-H
Objects
iPoster

Exhibit Hall
CD

**5:30 PM -
6:30 PM**

358
Observatory
Site Protection,
Light Pollution,
Radio
Interference &
Space Debris
iPoster

Exhibit Hall
CD

**5:30 PM -
6:30 PM**

359
Quantifying
Star Formation
Near & Far



iPoster

Exhibit Hall
CD

**5:30 PM -
6:30 PM**

360
Gamma Ray
Bursts

iPoster

Exhibit Hall
CD

**5:30 PM -
6:30 PM**

361
HST & JWST
Software

iPoster

Exhibit Hall
CD

**5:30 PM -
6:30 PM**

362
Astrobiology
Posters

iPoster

Exhibit Hall
CD

**5:30 PM -
6:30 PM**

363
SETI -
Technosignatures

iPoster

Exhibit Hall
CD

**5:30 PM -
6:30 PM**

364
Astronomy
Education

iPoster

Exhibit Hall
CD

**5:30 PM -
6:30 PM**

Not Your Advisor's ADS

Exhibitor Theater

Exhibit Hall CD

5:30 PM - 6:00 PM

6:00 PM	
Science from the TESS Extended Mission <i>Splinters</i> Maryland Ballroom C 6:00 PM - 9:00 PM	
	
6:30 PM	
FREE NSF NOIRLab & US Extremely Large Telescope Program Joint Open House <i>Splinters</i> Maryland Ballroom A 6:30 PM - 8:30 PM	365 JWST Town Hall <i>Town Hall</i> Potomac Ballroom C 6:30 PM - 8:30 PM
7:00 PM	
FREE Open Mic Night <i>Attendee Event</i> Potomac 1-2 7:00 PM - 9:00 PM	

Thursday, January 16, 2025		
7:30 AM		
40+ E Lounge <i>Attendee Event</i> Chesapeake 3 7:30 AM - 3:00 PM	Speaker Ready Room <i>Attendee Event</i> National Harbor 14-15 7:30 AM - 2:00 PM	AAS Registration <i>Attendee Event</i> Pre Function Area 7:30 AM - 5:00 PM
8:00 AM		
Quiet Room <i>Attendee Event</i> National Harbor 1 8:00 AM - 6:00 PM		

8:10 AM

400

Plenary Lecture: The Star Formation Engine, Stella Offner (University of Texas, Austin)

Plenary

Potomac Ballroom AB

8:10 AM - 9:00 AM



9:00 AM

Oral History Interviews	The Habitable Worlds Observatory: Current Status & Opportunities for Engagement	FREE AM Poster Session and Coffee Break	401 Neutron Stars 	402 Black Holes	403 Stars, Cool Dwarfs, Brown Dwarfs I 	404 Observations of Exoplanet Atmospheres
<i>Splinters</i> Chesapeake 6	<i>Splinters</i> Potomac Ballroom C	<i>Attendee Event</i> Exhibit Hall CD	<i>iPoster</i> Exhibit Hall CD	<i>iPoster</i> Exhibit Hall CD	<i>iPoster</i> Exhibit Hall CD	<i>iPoster</i> Exhibit Hall CD
9:00 AM - 1:00 PM	9:00 AM - 12:45 PM	9:00 AM - 10:00 AM	9:00 AM - 10:00 AM	9:00 AM - 10:00 AM	9:00 AM - 10:00 AM	9:00 AM - 10:00 AM
405 Starburst 	406 Extrasolar Planets: Radial Velocities	407 Radio Astronomy Software	408 Roman Space Telescope Software	409 White Dwarf Asteroseismology 	410 Specific Observations	411 AGN/Quasars V
<i>iPoster</i> Exhibit Hall CD	<i>iPoster</i> Exhibit Hall CD	<i>iPoster</i> Exhibit Hall CD	<i>iPoster</i> Exhibit Hall CD	<i>iPoster</i> Exhibit Hall CD	<i>iPoster</i> Exhibit Hall CD	<i>iPoster</i> Exhibit Hall CD
9:00 AM - 10:00 AM	9:00 AM - 10:00 AM	9:00 AM - 10:00 AM	9:00 AM - 10:00 AM	9:00 AM - 10:00 AM	9:00 AM - 10:00 AM	9:00 AM - 10:00 AM

476

Exoplanet Direct Imaging

iPoster

Exhibit Hall CD

9:00 AM - 10:00 AM

9:30 AM

A Conversation About the Gemini Observatory Strategic Plan for the 2030s

Splinters

Chesapeake 7-8

9:30 AM - 11:30 AM

10:00 AM						
412 Galaxy Clusters: Feedback, Theory, & Masses <i>Oral</i> Potomac 1-2 10:00 AM - 11:30 AM	413 Extrasolar Planets: Formation & Protoplanetary Disks II <i>Oral</i> Potomac 3-4 10:00 AM - 11:30 AM	414 The Solar System <i>Oral</i> Potomac 5-6 10:00 AM - 11:30 AM	415 Gamma Ray Bursts I <i>Oral</i> Maryland Ballroom B 10:00 AM - 11:30 AM	416 ISM IV <i>Oral</i> Maryland Ballroom D 10:00 AM - 11:30 AM	417 JWST & High-z Galaxies I <i>Oral</i> National Harbor 2 10:00 AM - 11:30 AM	418 Stars, Cool Dwarfs, Brown Dwarfs IV  <i>Oral</i> National Harbor 3 10:00 AM - 11:30 AM
419 Black Holes II <i>Oral</i> National Harbor 4 10:00 AM - 11:30 AM	420 AGN/Quasars VII (X-ray) <i>Oral</i> National Harbor 5 10:00 AM - 11:30 AM	421 Dark Matter & Dark Energy <i>Oral</i> National Harbor 6-7 10:00 AM - 11:30 AM	422 Transients & Time-Domain Astronomy II <i>Oral</i> National Harbor 10 10:00 AM - 11:30 AM	423 Supernovae III <i>Oral</i> National Harbor 11 10:00 AM - 11:30 AM	424 Image & Spectral Analysis Software <i>Oral</i> National Harbor 12 10:00 AM - 11:30 AM	425 The Power of Collaborative Networks in the Era of Big Data <i>Special Session</i> Chesapeake 4-5 10:00 AM - 11:30 AM
426 Astrobiology <i>Oral</i> Chesapeake A/B 10:00 AM - 11:30 AM	427 Neutron Stars in Low Mass X-ray Binaries  <i>Oral</i> Chesapeake D/E 10:00 AM - 11:30 AM	428 AGN/Quasars XI (Obscured/CO N) <i>Oral</i> Chesapeake G/H 10:00 AM - 11:30 AM	429 Milky Way Survey Science  <i>Oral</i> Chesapeake J/K/L 10:00 AM - 11:30 AM	430 Gravitational Waves & Multi-Messenger Astronomy IV <i>Oral</i> Maryland 1-2 10:00 AM - 11:30 AM	431 Dwarf & Irregular Galaxies III <i>Oral</i> National Harbor 13 10:00 AM - 11:30 AM	432 White Dwarfs  <i>Oral</i> TBD 2 10:00 AM - 11:30 AM
433 Circumstellar Disks III <i>Oral</i> TBD 3 10:00 AM - 11:30 AM				478 Virtual Session - Various Topics <i>Oral</i> Virtually Zoom 10:00 AM - 11:30 AM		

11:00 AM

The Rubin Observatory and Supermassive Black Holes: A New Era of Discovery -
Day 2

Splinters

Annapolis 3-4

11:00 AM - 1:15 PM

11:40 AM

434

Dannie Heineman Prize for Astrophysics Lecture: Past, Present, and Future Cosmic Microwave Background
Surveys, John E. Carlstrom (University of Chicago)

Plenary

Potomac Ballroom AB

11:40 AM - 12:30 PM

1:00 PM

 Afternoon Poster Session and Refreshment Break <i>Attendee Event</i> Exhibit Hall CD 1:00 - 2:00 PM	464 Stars, Cool Dwarfs, Brown Dwarfs II  <i>iPoster</i> Exhibit Hall CD 1:00 - 2:00 PM	465 AI, ML, & Data Processing <i>iPoster</i> Exhibit Hall CD 1:00 - 2:00 PM	466 Evolution of Galaxies <i>iPoster</i> Exhibit Hall CD 1:00 - 2:00 PM	467 Large Scale Structure, Cosmic Distance Scale <i>iPoster</i> Exhibit Hall CD 1:00 - 2:00 PM	468 Spiral Galaxies <i>iPoster</i> Exhibit Hall CD 1:00 - 2:00 PM	469 Galaxy Clusters: ICM <i>iPoster</i> Exhibit Hall CD 1:00 - 2:00 PM
	470 Classical Pulsators  <i>iPoster</i> Exhibit Hall CD 1:00 - 2:00 PM	471 Dataset & Catalog Software <i>iPoster</i> Exhibit Hall CD 1:00 - 2:00 PM	472 Galaxy Clusters: Galaxies <i>iPoster</i> Exhibit Hall CD 1:00 - 2:00 PM	473 Dark Matter & Dark Energy <i>iPoster</i> Exhibit Hall CD 1:00 - 2:00 PM	474 Planetary Nebulae <i>iPoster</i> Exhibit Hall CD 1:00 - 2:00 PM	475 Relativistic Astrophysics <i>iPoster</i> Exhibit Hall CD 1:00 - 2:00 PM

2:00 PM						
456 SMD Inclusion Plan Pilot: Lessons Learned from the Astrophysics Community <i>Special Session</i> Chesapeake D/E 2:00 - 3:30 PM	439 Exoplanet Direct Imaging Space Missions <i>Oral</i> Potomac Ballroom C 2:00 - 3:30 PM	440 Galaxy Clusters: Mergers, Radio, & Galaxy Distributions <i>Oral</i> Potomac 1-2 2:00 - 3:30 PM	441 Extrasolar Planets: Formation & Protoplanetary Disks III <i>Oral</i> Potomac 3-4 2:00 - 3:30 PM	442 Technology Developments in Outreach, Education, & Research <i>Oral</i> Potomac 5-6 2:00 - 3:30 PM	443 Gamma Ray Bursts II <i>Oral</i> Maryland Ballroom B 2:00 - 3:30 PM	444 ISM V <i>Oral</i> Maryland Ballroom D 2:00 - 3:30 PM
445 JWST & High-z Galaxies II <i>Oral</i> National Harbor 2 2:00 - 3:30 PM	446 Cool Stars, Brown Dwarfs V  <i>Oral</i> National Harbor 3 2:00 - 3:30 PM	447 Black Holes III <i>Oral</i> National Harbor 4 2:00 - 3:30 PM	448 AGN/Quasars VIII (Radio, Jets) <i>Oral</i> National Harbor 5 2:00 - 3:30 PM	449 Multiple Star Systems II  <i>Oral</i> National Harbor 6-7 2:00 - 3:30 PM	450 Machine Learning Methods <i>Oral</i> National Harbor 10 2:00 - 3:30 PM	451 Cosmology IV <i>Oral</i> National Harbor 11 2:00 - 3:30 PM
452 Characterizing Neutron Stars Systems  <i>Oral</i> National Harbor 12 2:00 - 3:30 PM	453 Exoplanet Direct Imaging: HWO <i>Oral</i> National Harbor 13 2:00 - 3:30 PM	455 Asteroseismology & Classical Pulsators  <i>Oral</i> Chesapeake A/B 2:00 - 3:30 PM	457 AGN/Quasars XII <i>Oral</i> Chesapeake G/H 2:00 - 3:30 PM	458 Supernovae IV <i>Oral</i> Chesapeake J/K/L 2:00 - 3:30 PM	459 Gravitational Waves & Multi-Messenger Astronomy V <i>Oral</i> Maryland 1-2 2:00 - 3:30 PM	460 Future Missions & Instrumentation for Exoplanets & Technosignatures <i>Oral</i> TBD 1 2:00 - 3:30 PM
461 Space-based Missions on the Moon & CMB <i>Oral</i> TBD 2 2:00 PM - 3:30 PM				462  Stellar Atmospheres & Winds <i>Oral</i> Chesapeake 4-5 2:00 PM - 3:30 PM		

3:40 PM

463

RAS Gold Medal Lecture: From the Cradle: Applying Basic Physics to Astrophysical Fundamental Questions,
Gilles Chabrier (ENS-Lyon)

Plenary

Potomac Ballroom AB

3:40 PM - 4:30 PM

4:40 PM

477

Lancelot M. Berkeley: New York Community Trust Prize for Meritorious Work in Astronomy Lecture: Erik Tollerud
(STScI), Clara Brasseur (St Andrews), & Kelle Cruz (CUNY & American Museum of Natural History)

Plenary

Potomac Ballroom AB

4:40 PM - 5:30 PM

6:00 PM

FREE

Closing Reception

Attendee Event

Riverview Ballroom

6:00 PM - 7:30 PM