

## Message from the Editor

Mariya Lyubenova<sup>1</sup>

<sup>1</sup> ESO

My first encounter with The Messenger was in my student years when I was given a research assignment on extremely large telescopes. To this date I vividly remember my fascination with OWL, the OverWhelmingly Large telescope that I read about in The Messenger No. 100. It is a great honour for me to be the new editor of this journal, especially now that ESO is well under way to building its Extremely Large Telescope (ELT). I take this opportunity to thank you for your patience with the delay in publishing

the current volume during this transition period. I hope that this special issue — dedicated to ELT's instrumentation — will be as inspiring, in particular to our junior readers, as The Messenger No. 100 was for me.

I am looking forward to continuing the traditions of this communications channel to reach out to ESO's astronomical user community with high-quality articles, as well as to feature new content that will spark the curiosity of a broader range of professionals whose interests cross paths with ESO and astronomy. Do not hesitate to submit<sup>1</sup> your ideas for topical contributions showcasing the usage of ESO's various programmes and facilities.

I am indebted to my predecessor Gaiete Hussain for her guidance into the intricacies of The Messenger, as well as for steering the journal over the past three years. Gaiete has been a true role model for me and for many colleagues at ESO and beyond. As per the journal's tradition, a composite of all the cover images of The Messenger under her direction is shown on p. 59. I am wishing her all the best in her new professional endeavour at the European Space Agency.

### Links

<sup>1</sup> Guidelines for articles in The Messenger: <https://www.eso.org/sci/publications/messenger/mes-guide.html>

## ESO's Extremely Large Telescope

Welcome  
to the new online home  
of the World's Biggest  
Eye on the Sky.

[elt.eso.org](http://elt.eso.org)



# The Messenger

No. 182 - Quarter 3 | 2020

ESPRESSO Science Verification  
The VLT-FLAMES Tarantula Survey  
NGTS - Uncovering New Worlds with Ultra-Precise Photometry, Spectroscopy & A View from VMC, Gaia and Beyond  
Magnetic Clouds - Historical Perspectives & A View from VMC, Gaia and Beyond

# The Messenger

No. 180 - Quarter 2 | 2020

The Cherenkov Telescope Array Observatory Comes of Age  
MOONS: The New Multi-Object Spectrograph for the VLT  
The ALPINE-ALMA [CII] Survey

# The Messenger

No. 179 - Quarter 1 | 2020

2019 Visiting Committee Report  
SPHERE Unveils the True Face of the Largest Main Belt Asteroids  
The ASPeCS Survey

# The Messenger

No. 176 - Quarter 4 | 2019

ELT4 - The Largest Adaptive Mirror Ever Built  
A Celebration of GRAVITY Science  
The ESO Summer Research Programme 2019

# The Messenger

No. 177 - Quarter 3 | 2019

Distributed Peer Review  
The ELT - Where the Secondary Mirror Becomes a Giant  
The PLANESCAN Telescope Results  
Total Solar Eclipse Over La Silla

# The Messenger

No. 176 - Quarter 2 | 2019

Astronomy in Ireland  
ELT - Where the Secondary Mirror Becomes a Giant  
The ELT: The Role of the Adaptive Optics  
ESO Science Ambassadors

# The Messenger

No. 175 - Quarter 1 | 2019

The AMOST Telescope  
Overview and Information for the Call for Proposals  
Scientific Operations and Survey Strategy Plan  
AMOST Consortium Surveys

# The Messenger

No. 174 - December | 2018

The SFCALOS Southern Observatory  
ALMA Observations of the Epoch of Planet Formation  
The Early Growth and Life Cycle of Galaxies with COSMOS  
Riccardo Giacconi (1931-2016)

# The Messenger

No. 173 - September | 2018

Service Mode and Visitor Mode at Paranal  
Milestones in Chilean ESO Science  
The ELT: The Role of the Adaptive Optics  
Resolving the Interstellar Medium at the Peak of Coenial Star Formation

# The Messenger

No. 172 - June | 2018

Enhanced data discovery  
Science Verification of HAWK-E  
ALMA finds too many massive stars in starburst galaxies  
Stellar surface imaging with VLT and ALMA

# The Messenger

No. 171 - March | 2018

La Silla Paranal instrumentation - a retrospective  
The VLT roadmap  
The ELT's Primary Mirror  
Exploring the Sun with ALMA

# The Messenger

No. 170 - December | 2017

Astrophysics in Australia  
First light for GRAVITY  
MUSE observes gas stopping in galaxies  
Unveiling accretion in a protoplanetary system

# The Messenger

No. 169 - September | 2017

Reproducible with 'Orbital  
Massive Star Formation at  
Resolving the Interstellar

# The Messenger

No. 168 - June | 2017

Enhanced data discovery  
Science Verification of HAWK-E  
ALMA finds too many massive stars in starburst galaxies  
Stellar surface imaging with VLT and ALMA

# The Messenger

No. 167 - March | 2017

La Silla Paranal instrumentation - a retrospective  
The VLT roadmap  
The ELT's Primary Mirror  
Exploring the Sun with ALMA

# The Messenger

No. 166 - December | 2016

La Silla Paranal instrumentation - a retrospective  
The VLT roadmap  
The ELT's Primary Mirror  
Exploring the Sun with ALMA