

Preliminary list of speakers for memorial and plenary sessions

August 18 (09.30-12.30)

Memorial session

1. M. Capaccioli (Naples University, Italy)

The contributions of Edwin Hubble to the XX century revolutions in astrophysics and cosmology.

2. M. Ryabov (RI NASU)

25 years of annual Gamow conferences and traditions of Odessa astronomy.

3. Remo Ruffini (Director of ICRA Net, Italy)

The role of Georgii Antonovich Gamow guiding Enrico Fermi in revealing the physics of the very early Universe, today further verified by the "red-dots" observed by the James Webb Telescope.

4. Bohdan Novosyadlyj (Astronomical Observatory of Ivan Franko National University of Lviv, Ukraine)

From Gamow's Prediction of CMB up to now and beyond (to the 60th Anniversary of Discovery)

5. I.E. Rikun

The Epoch of Academician A.Y. Orlov in the History of Astronomy in Odessa.

August 18 (13.00 – 18.00)

Plenary session

Cosmology

1. Emmanuel N. Saridakis (Research director of National Observatory of Athens, Greece)

Tensions in Cosmology: Are we Approaching New Physics?

2. Alexander Zhuk (Odesa National University, Ukraine; CASUS, Germany)

Phantom Dynamic Dark Energy: Towards a Solution to the Cosmological H_0 Tension

3. Mariam Bouhmadi-López (Department of Physics & EHU Quantum Center, University of the Basque Country UPV/EHU, Bilbao, Spain; IKERBASQUE, Basque Foundation for Science, Bilbao, Spain)

Probing Cosmic Acceleration: Dark Energy and Modified Gravity

4. Alexander Kamenshchik (Dipartimento di Fisica e Astronomia, Università di Bologna, Bologna, Italy)

Singularities and their Crossing in Gravity and Cosmology

5. Claus Kiefer (University of Cologne, Faculty of Mathematics and Natural Sciences, Institute for Theoretical Physics, Cologne, Germany)

From a Quantum World to our Classical Universe

6. Adam Riess, Nobel Laureate (Department of Physics and Astronomy, Johns Hopkins University, Baltimore, USA)

JWST Weighs in on the Hubble Tension

7. Günther Hasinger (Director of Deutsches Zentrum für Astrophysik, Görlitz, Germany)

A possible role of Primordial Black Holes in the Early Universe?

August 19 (09.00 – 14.00)

Astrophysics

1. Ivan L. Andronov (Department of Mathematica, Physics and Astronomy, Odesa National Maritime University, Odesa, Ukraine)

Variable Stars: The Diversity, Classification and Statistically Optimal Phenomenological Mathematical Modelling

2. Włodimierz Godłowski (Institute of Physics, Opole University, Poland)

Investigations of Galaxy alignment - significance and results

3. Bohdan Melekh (Department of Astrophysics, Ivan Franko National University of Lviv, Ukraine)

Multicomponent modeling of nebular environments surrounding active star-forming regions

4. Eugene (Gene) F. Milone (University of Calgary, Canada)

The future of eclipsing binary studies in the post-Gaia era

5. Ernst Paunzen (Department of Theoretical Physics and Astrophysics, Masaryk University, Brno, Czechia)

Stellar Populations and Star Clusters

6. Peter Berczik (Main Astronomical Observatory, National Academy of Sciences of Ukraine)

Nuclear Star Cluster formation by the first generation globular clusters disruption

7. Roberto Ragozzoni (President of INAF, Italy)
TBA

August 20 (09.00 – 14.00)

Solar Activity and Solar-Terrestrial Relations

1. I. Usoskin (Oulu University, Finland)

Solar activity cycles beyond the telescopic era: A New look through cosmogenic radiocarbon

2. J. Semkova (Space Research and Technology Institute, Sofia, Bulgaria)

Radiation conditions in Mars vicinity during different phases of the solar cycle

3. Gianpaolo Piotto (Padua University and director of CISAS, Italy)

Search for exoplanets: towards Earth analogous and Biosignatures.

4. A. Zalizovski, O. Koloskov, Yu. Yampolski (Radio Astronomical Institute NAS of Ukraine)

Geospace and Space Weather: a view from Ukraine, Antarctic and Arctic.

5. O. Ulyanov (Institute Radio Astronomy NAS of Ukraine), **C. Tiburzi, P. Zarka, A. Shevtsova, V. Zakharenko, O. Konovalenko, O. Wucknitz, L. Lamy, G-M. Griesmeier, M. Skoryk, I. Kravtsov, V. Bezrukovs, J. Šteinbergs, K.**

Skirmante, A. Brazhenko, A. Frantsuzenko, A. Skoryk

Probing the Solar Corona with Low-Frequency Pulse Radio Emission of Galactic Sources

6. A.A. Stanislavsky (Institute Radio Astronomy NAS of Ukraine), **I.M. Bubnov, L.A. Stanislavsky, A.A. Konovalenko, P. Zarka, A. Loh, C. Viou, R.V.**

Vaschishyn, A.V. Frantsuzenko, V.I. Myrhorod

Investigating Supernova Remnants at Low Frequencies

7. V. Dorovski (Institute Radio Astronomy NAS of Ukraine)

Study of the physical properties of the solar corona based on radio observations at decameter wavelengths

Online Excursion to the Vernadsky Research Base (Ukrainian Antarctic research station) (the day and time will be given in the Third Announcement)