

Session 1: Star Formation in the solar neighborhood – August 20th, 10:30–12:00, Chair: Jan Palous

- **10:30-11:00 Mika Juvela:** Star Formation in the solar neighborhood – surveys, generalities, simulations (invited)
- **11:00-11:15 Maria Cunningham:** The role of automated methods for filament finding in understanding the complex relationship between filaments, magnetic fields and star formation
- **11:15-11:30 Josefa Elisabeth Grossschedl:** Resolved Maps of Star Formation Rate and Efficiency for the GMC Orion A
- **11:30-11:45 Quang Nguyen-Luong:** The dense galactic environments of the Milky Way
- **11:45-12:00 Anna Melnik:** Kinematics of OB-associations in the 3-kpc solar neighborhood

Session 2: Star formation in cloud cores – August 20th, 13:30–15:00, Chair: Joao Alves

- **13:30-14:00 Christoph Federrath:** Star formation in cloud cores – simulations and observations of dense molecular cores and the formation of solar mass stars (invited)
- **14:00-14:15 Alvaro Hacar:** ALMA observations of the Orion Integral Filament: evidence for fibers in a massive cloud
- **14:15-14:30 Michael Kuffmeier:** Accounting for the protosolar environment
- **14:30-14:45 Diederik Kruijssen:** The implications of clustered star formation for (proto)planetary systems and habitability
- **14:45-15:00 Ian Stephens:** MASSES: An SMA Large Project Surveying Protostars to Reveal How Stars Gain their Mass

Session 3: Early environment of the pre-solar nebula – August 21st, 10:30–12:00, Chair: Anna Melnik

- **10:30-11:00 Edward Young:** The birth environment of the solar system constrained by the relative abundances of the radionuclides (invited)
- **11:00-11:15 Vikram Dwarkadas:** Triggered Star Formation inside the Shell of a Wolf-Rayet Bubble as the Origin of the Solar System
- **11:15-11:30 Yusuke Fujimoto:** Short-lived radioisotopes in meteorites from Galactic-scale correlated star formation

- **11:30-11:45 Orsolya Feher:** Episodic accretion in focus: revealing the circumstellar environment of FU Orionis-type stars with millimeter interferometry
- **11:45-12:00 Anaelie Maury:** Characterizing the youngest protostellar disks with the IRAM-PdBI and ALMA: large Class 0 disks are rare

Session 4: Formation and evolution of protoplanetary disks – August 21st, 13:30–15:00, Chair: Susana Lizano

- **13:30-14:00 Laura Pérez:** Formation and evolution of protoplanetary disks – observations and modeling of jets, disks, and disk substructures (invited)
- **14:00-14:15 Xuening Bai:** Towards Realistic Understandings of Gas Dynamics in Protoplanetary Disks
- **14:15-14:30 Per Bjerkeli:** Resolving star and planet formation with ALMA
- **14:30-14:45 Yoko Oya:** Unified Picture of Chemical Differentiation in Disk-Forming Regions of Low-Mass Protostellar Sources
- **14:45-15:00 Karl Stapelfeldt:** A Planetary Mass Companion in an Edge-on Protoplanetary Disk System

Wednesday August 22nd, 8:30-10:00. Plenary Talk by Manuel Guedel: Cosmic Pathways to Life: From Interstellar Molecules to the First Traces of Life

Session 5: Physical and chemical properties of protoplanetary disks – August 22nd, 10:30–12:00, Chair: Yuri Aikawa

- **10:30-11:00 Inga Kamp:** Physical and chemical properties of protoplanetary disks (invited)
- **11:00-11:15 Mario Flock:** 3D radiation MHD simulations of gas and dust in protoplanetary disks
- **11:15-11:30 Jozsef Varga:** A mid-infrared interferometric survey of the planet-forming region around young Sun-like stars
- **11:30-11:45 Jes Kristian Jorgensen:** New insights into the complex chemistry of young stars from the ALMA PILS survey
- **11:45-12:00 Francesco Pignatale:** The first 200 kyr of the Solar System

Session 6: Formation of Earth and Earth-like planets – August 22nd, 15:30–17:00, Chair: Manuel Guedel

- **15:30-16:00 Eiichiro Kokubo:** Formation of terrestrial planets (invited)

- **16:00-16:15 Miroslav Broz:** Dynamics of protoplanets embedded in gas/pebble disks and its complex dependence on parameters
- **16:15-16:30 Sergei Ipatov:** Formation of the Earth-Moon system
- **16:30-16:45 German Chaparro:** Transitional disk archaeology from exoplanet population synthesis
- **16:45-17:00** Poster Talks

Session 7: Early planetary atmospheres and surfaces – August 23rd, 08:30–10:00, Chair: Lucyna Chudczer

- **8:30-9:00 Doris Breuer:** Early planetary atmospheres and surfaces, origin of the Earth's water, crust and atmosphere (invited)
- **9:00-9:15 Mikhail Marov:** Water inventory from beyond the Jupiter orbit to the terrestrial planets and the Moon
- **9:15-9:30 Thomas Rice:** Exploring the Origins of the Earth's Nitrogen
- **9:30-9:45 Dmitry Bisikalo:** Neutral atmospheric escape in the Solar and extrasolar planetary systems
- **9:45-10:00 Nicolas Iro:** Modelling the atmosphere of habitable planets

Session 8: Early conditions on the Earth – August 23rd, 10:30–12:00, Chair: Manfred Cuntz

- **10:30-11:00 Helmut Lammer:** Constraining the early evolution of terrestrial planets by reproducing elemental ratios (invited)
- **11:00-11:15 Adriana Valio:** The biological impact of superflares on a planet in the Habitable Zone
- **11:15-11:30 Teresa Luftinger:** Stellar activity and winds shaping the atmospheres of Earth-like planets
- **11:30-11:45 Peter Abraham:** Outbursts of young Sun-like stars may change how terrestrial planets form
- **11:45-12:00 Amri Wandel:** Bio-habitability and life on planets of M- to G-type stars

Session 9: Earth-like planets – August 23rd, 13:30–15:00, Chair: Monica Rubio

- **13:30-14:00 Daniel Apai:** The characterization and properties of Earth-like planets (invited)

- **14:00-14:15 Svetlana Berdyugina:** Biohaze as an atmospheric biosignature of an early Earth
- **14:15-14:30 John Pye:** Exoplanet host-star properties: the active environment of exoplanets
- **14:30-15:00** Poster Talks

**Session 10: Early life on Earth – August 23rd, 15:30–17:00,
Chair: Muriel Gargaud**

- **15:30-16:00 Addy Pross:** Early life on Earth – tracing the physical/chemical process from non-living to living (invited)
- **16:00-16:15 Eduardo Janot Pacheco:** Unveiling the whole from its parts. Or to see the forest from the trees
- **16:15-16:30 Ruth-Sophie Taubner:** Simulating putative Enceladus-like conditions: The possibility of biological methane production on Saturn's icy moon
- **16:30-16:45 Manuel Scherf:** Earth's paleo-magnetosphere and its implications on the evolution of the terrestrial atmosphere
- **16:45-17:00 Ximena Abrevaya:** Towards Astrobiological Experimental Approaches to Study UV Surface Environments: From the Early Solar System to Exoplanets