Schedule for Habitable Worlds 2021 Workshop  
(all times EST)  

Tuesday, February 23  
Star-Planet Interactions  

12:00 – 12:09  
**Introductory Remarks**  
Natalie Hinkel (SwRI)  

12:09 – 12:10  
**Theme 1: Stellar Activity (via M-dwarfs) and Life**  
Julián Alvarado-Gómez (Leibniz Inst. Astrophysik, Potsdam)  
**Plenary Talk:** “Eruptive Events in Active Stars: Lessons Learned From Numerical Simulations”  

12:20 – 12:29  
Chris Davis (U. Washington)  
**Plenary Talk:** “Effects of M-dwarf UV Variability on Detecting and Interpreting Biosignatures”  

12:30 – 12:44  
Amy Glazier (UNC, Chapel Hill)  
**Contributed Talk:** “Constraints on Post-Superflare Exo-Auroral Emission with SOAR and the Evryscope Fast Transient Engine”  

12:45 – 12:59  
Raissa Estrela (JPL)  
**Contributed Talk:** “Diversity in Terrestrial Worlds: Analysis of Multi-dimensional Factors That Shape Their Evolution”  

1:00 – 1:14  
Keavin Moore (McGill U.)  
**Contributed Talk:** “Keeping M-Earths Habitable in the Face of Atmospheric Loss from a 1-D Atmosphere by Sequestering Water in the Mantle”  

1:15 – 1:45  
**Panel Discussion:** “Stellar Activity and Life”  
Julián Alvarado-Gómez, Chris Davis, Raissa Estrela, Amy Glazier, Keavin Moore  

1:45 – 2:00  
**Break**  

2:00 – 2:45  
**Open Engagement** – Session “A”  

2:45 – 2:54  
**Theme 2: Stars to Planets to Atmospheres**  
Vardan Adibekyan (Inst. Astrofisica de Canarias) and Natalie Hinkel (SwRI)  
**Plenary Talk:** “Observational Evidence of the Compositional Link Between Rocky Planets and Their Hosts” and “Combining Stellar Abundances and the Biogeosciences to Take a Critical Step Toward Detecting Life on Exoplanets”
2:55 – 3:04  Guillaume Gronoff (NASA LaRC)
**Plenary Talk:** "Atmospheric Escape Processes and Planetary Atmospheric Evolution: From Misconceptions to Challenges"

3:05 – 3:19  Romy Rodríguez-Martínez (Ohio State)
**Contributed Talk:** “Analytic Estimates of the Achievable Precision of the Properties of Transiting Exoplanets”

3:20 – 3:34  Christopher Colose (NASA GISS)
**Contributed Talk:** “Effects of Spin-Orbit Resonances and Tidal Heating on the Inner Edge of the Habitable Zone”

3:35 – 4:04  Cecilia Garraffo (Harvard, SAO)
**Contributed Talk:** “Studying Stars to Understand Planets [Studying How Space Weather, via Stellar Magnetic Fields, Influences a Planet]”

4:05 – 4:34  **Panel Discussion:** “Stars to Planets to Atmospheres”
Vardan Adibekyan, Christopher Colose, Guillaume Gronoff, Natalie Hinkel, Romy Rodríguez-Martínez

4:35 – 5:00+  **Open Engagement** - All