



Jet Propulsion Laboratory
California Institute of Technology

Exoplanet Exploration Program Overview

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Jet Propulsion Laboratory

California Institute of Technology

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ExoPAG 23, Virtual

CL#21-0042

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Artist concept of
Kepler-16b

NASA Exoplanet Exploration Program

Astrophysics Division, NASA Science Mission Directorate

NASA's search for habitable planets and life beyond our solar system

Program purpose per Charter From the Astrophysics Division

1. Discover planets around other stars
2. Characterize their properties
3. Identify candidates that could harbor life



ExEP serves the Science Community and NASA:

- As a focal point for exoplanet science and technology
- By integration of cohesive strategies for future discoveries

<https://exoplanets.nasa.gov>

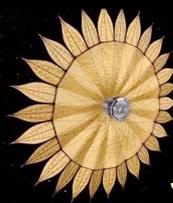
NASA Exoplanet Exploration Program

Space Missions Concept Studies

Large- and Probe-Scale
Mission Concepts



Coronagraph



Starshade

Exoplanet Communications

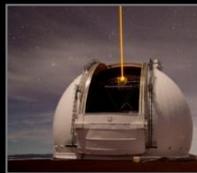


Supporting Research & Technology

Key Sustaining Research



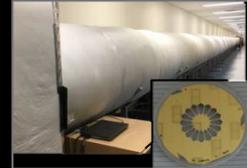
NN-EXPLORE



Keck Observations



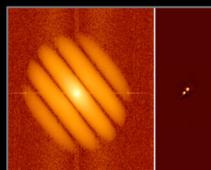
Coronagraph
Technology
Development



Starshade
Technology Development
(S5)



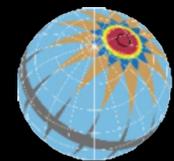
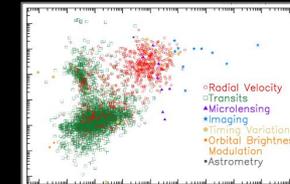
Large Binocular
Telescope
Interferometer



High Resolution
Imaging

Technology Development

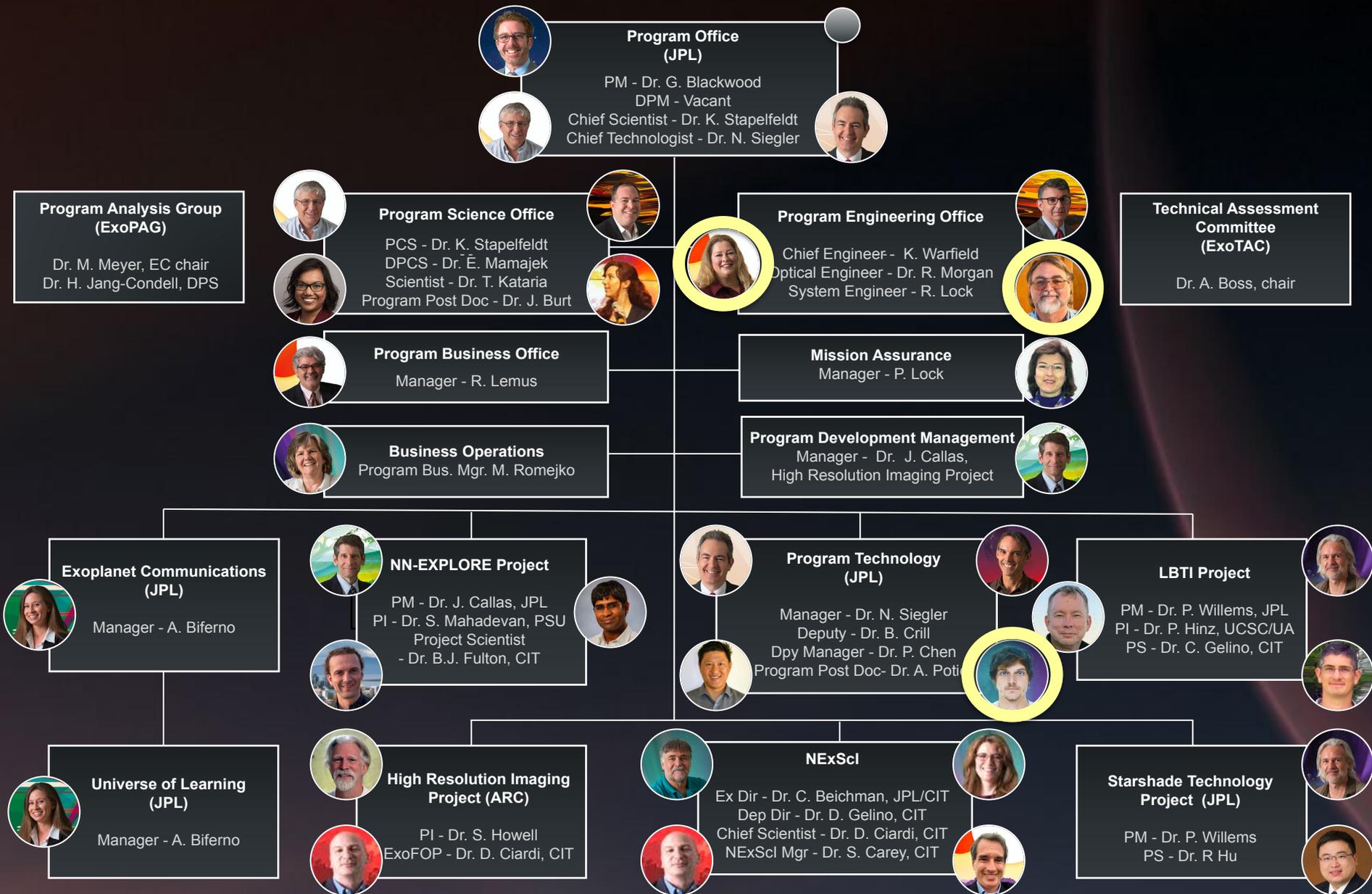
NASA Exoplanet Science Institute (NExSci)



Archives, Tools, Sagan Program,
Professional Engagement

NASA Exoplanet Exploration Program

Astrophysics Division, Science Mission Directorate



Key Staff Changes Since Last ExoPAG

Moving Forward from ExEP to New Assignments at JPL and ARC

Thank You!



Program Office (JPL)

Deputy Program Manager (Former)
Kendra Short



Kepler Project (ARC)

PM (Former) – M. Fujieh
PS (K2) (Former) – Dr. J. Dotson



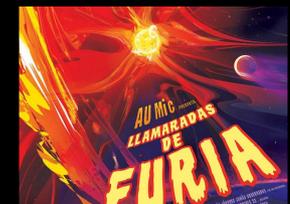
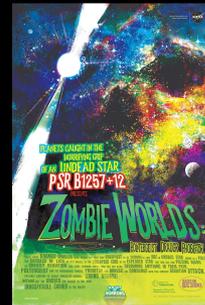
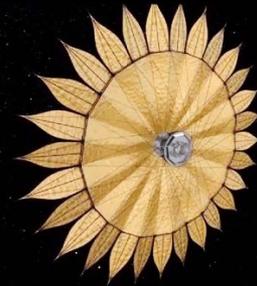
Kepler Project (JPL)

Mission Manager (Former)
Dr. D. Ardila

A Few Highlights

Others Covered in Subsequent Presentations

- Support to Roman CGI
 - High Contrast Imaging Testbed
- Starshade
 - Technology and Science Working Group
 - Science and Industry Partnership
 - Exoplanet Data Challenge Awards
- ExoComm
 - Galaxy of Horrors
 - Coloring Book
 - Multilingual posters



<https://exoplanets.nasa.gov/exep>

Explore

Inspire

Aspire

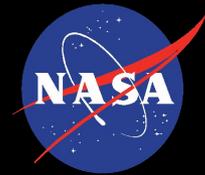
Seek ambitiously

Seek with intention



***Exoplanets are Aspirational
Draw us, Impel us
To Explore and Inspire***

Great Conjunction
Dec 21 2020



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exoplanets.nasa.gov

Acknowledgements

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