

**Committee on Astrobiology and Planetary Sciences  
24-26 October 2023  
Arnold and Mabel Beckman Center**

**100 Academy Way, Irvine, California 92617**

**FINAL AGENDA<sup>1</sup>**

**TUESDAY, 24 OCTOBER 2023**

**HUNTINGTON ROOM**

**OPEN SESSION**

All times Pacific Daylight Time (UTC-7:00)

|            |   |   |
|------------|---|---|
| 7:30 a.m.  | <i>Assemble in hotel lobby to carpool to the Beckman Center</i>           |   |
| 7:45 a.m.  | <i>Breakfast available for members and guest speakers in meeting room</i> |   |
| 8:15 a.m.  | <i>Vimeo link goes live<sup>2</sup></i>                                   |   |
| 8:30 a.m.  | Welcome, Introductions and Agenda Review                                  | Martha Gilmore and Karyn Rogers <sup>3</sup>  |
| 8:35 a.m.  | Update from NASA Planetary Science Division                               | Lori Glaze <sup>4</sup><br>NASA Headquarters  |
| 9:45 a.m.  | Update from NASA Astrobiology Program                                     | David Grinspoon <sup>5</sup><br>NASA Headquarters   |
| 10:30 a.m. | <i>Break</i>  |   |
| 3:15 p.m.  | Mars Sample Return: Science Goals   | Meenakshi Wadhwa <sup>6</sup> and Kenneth Farley <sup>7</sup> ( <i>via Zoom</i> )<br>Jet Propulsion Laboratory/Arizona State University<br>and California Institute of Technology |
| 11:45 a.m. | General Discussion  | Members and Guests  |
| 12:00 p.m. | <i>Lunch available for members and guests in the meeting room</i>         |   |

<sup>1</sup> This agenda is subject to change, and was last updated on 10/20/2023 10:41 AM

<sup>2</sup> Vimeo access details can be found in the Notes section at the end of this agenda

<sup>3</sup> CAPS co-chairs

<sup>4</sup> Director NASA/SMD/Planetary Science Division

<sup>5</sup> Senior Scientist for Astrobiology Strategy NASA/SMD/PSD

<sup>6</sup> Principal Scientist for the Mars Sample Return Program

<sup>7</sup> Mars 2020 Project Scientist

|           |  |  |
|-----------|--|--|
| 1:00 p.m. | The Near-Earth Object Surveyor Mission   | Amy Mainzer <sup>8</sup><br>University of Arizona  |
| 1:45 p.m. | Planetary Defense Spacecraft Missions:<br>Past, Present, and Future                      | Nancy Chabot <sup>9</sup><br>Applied Physics Laboratory  |
| 2:30 p.m. | Q&A for Planetary Defense Presentations  | Members and Guests   |
| 3:00 p.m. | Break  |  |
| 3:15 p.m. | Mars Sample Return: Science Goals  | Meenakshi Wadhwa <sup>10</sup> ( <i>via Zoom</i> )<br>Jet Propulsion Laboratory/Arizona State University |
| 4:15 p.m. | Mars Sample Return: Report of the Independent Review Board                               | Orlando Figueroa <sup>11</sup>   |
| 5:15 p.m. | Life Lessons from a Dynamic Early Earth:<br>Environments, Origins, and the Search Beyond | Timothy Lyons<br>University of California, Riverside   |
| 6:15 p.m. | <i>Committee adjourns for working dinner</i>   |  |

### **CLOSED SESSION**

7:00 p.m. *Working Dinner*

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<sup>8</sup> NEO Surveyor Survey Director

<sup>9</sup> Double Asteroid Redirection Test Coordination Lead

<sup>10</sup> Principal Scientist for the Mars Sample Return Program

<sup>11</sup> Chair MSR Independent Review Board

**WEDNESDAY, 25 OCTOBER 2023**

**HUNTINGTON ROOM**

**OPEN SESSION**

All times Pacific Daylight Time (UTC-7:00)

|            |   |   |
|------------|---|---|
| 7:30 a.m.  | <i>Assemble in hotel lobby to carpool to the Beckman Center</i>           |   |
| 7:45 a.m.  | <i>Breakfast available for members and guest speakers in meeting room</i> |   |
| 8:15 a.m.  | <i>Vimeo goes live</i> <sup>12</sup>                                      |   |
| 8:30 a.m.  | Mars Sample Return: Update and Response to IRB Report                     | Sandra Connelly ( <i>via Zoom</i> ), <sup>13</sup><br>Jeff Gramling, <sup>14</sup> and Michael Meyer <sup>15</sup><br>NASA Headquarters |
| 9:30 a.m.  | Mars Sample Return: MEPAG Reaction to IRB Report                          | Victoria Hamilton <sup>16</sup><br>Southwest Research Institute   |
| 10:00 a.m. | <i>Break</i>  |   |
| 10:15 a.m. | General Discussion of Mars Sample Return Presentations                    | Members and Guests  |
| 11:00 a.m. | Europa Clipper Status Report  | Bonnie Buratti <sup>17</sup><br>and Tim Larson ( <i>via Zoom</i> ) <sup>18</sup><br>Jet Propulsion Laboratory                           |
| 12:00 p.m. | <i>Lunch available for members and guest speakers in meeting room</i>     |   |
| 1:00 p.m.  | Endurance-A Long Range Sample Collecting<br>Lunar Rover Mission Concept   | James T. Keane <sup>19</sup><br>Jet Propulsion Laboratory   |
| 1:45 p.m.  | Progress on the Volatiles Investigating<br>Polar Exploration Rover        | Anthony Colaprete <sup>20</sup> ( <i>via Zoom</i> )<br>NASA Ames Research Center  |

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<sup>12</sup> For Vimeo access details see the Notes section at the end of this agenda.

<sup>13</sup> Deputy Associate Administrator, NASA/SMD

<sup>14</sup> MSR Program Director, NASA/SMD

<sup>15</sup> Mars Lead Scientist, NASA/SMD/PSD

<sup>16</sup> MEPAG Chair

<sup>17</sup> Europa Clipper Deputy Project Scientist

<sup>18</sup> Europa Clipper Deputy Project Manager

<sup>19</sup> Endurance-A Decadal Survey Science Champion

<sup>20</sup> VIPER Project Scientist

|           |  |  |
|-----------|--|--|
| 2:30 p.m. | Q&A For Lunar Rover Presentations                  | Members and Guests   |
| 3:00 p.m. | Break  |  |
| 3:15 p.m. | NASA's Science Activation Program                  | Kristen Erickson/Lin Chambers <sup>21</sup><br>NASA Headquarters |
| 4:15 p.m. | Ancient Life as a Guide for Exploring Alien Earths | Betül Kaçar <sup>22</sup><br>University of Wisconsin-Madison     |
| 5:15 p.m. | General Discussion of Presentations <sup>23</sup>  | Members and Guests   |
| 6:00 p.m. | <i>Adjourn for the day</i>                         |  |

**THURSDAY, 26 OCTOBER 2023**

**HUNTINGTON ROOM**

**CLOSED SESSION**

All times Pacific Daylight Time (UTC-7:00)

|            |   |                                 |
|------------|---|---------------------------------|
| 7:30 a.m.  | <i>Assemble in hotel lobby to carpool to the Beckman Center</i> |                                 |
| 7:45 a.m.  | <i>Breakfast available for members in meeting room</i>          |                                 |
| 8:30 a.m.  | General Discussion of Presentations and Other Issues            | Members                         |
| 10:30 a.m. | <i>Break</i>  |                                 |
| 10:45 a.m. | General Discussion (continued)                                  | Members                         |
| 11:15 a.m. | Agenda Items for the Next Meeting                               | Members                         |
| 11:45 a.m. | Final Words   | Karen Rogers and Martha Gilmore |
| 12:00 p.m. | <i>Adjourn meeting</i>  |                                 |

<sup>21</sup> Director/Deputy Director for Science Engagement and Partnerships, NASA/SMD

<sup>22</sup> LIFE RCN Co-Chair

<sup>23</sup> The co-chairs may call for a closed session at this time

## NOTES

**For the Public:** This meeting is being held to gather information to help the committee in its charge. This committee will examine the information and material obtained during this, and other public meetings, in an effort to inform its work. Although opinions may be stated and lively discussion may ensue, no conclusions are being drawn nor will recommendations be made. Observers who draw conclusions about the committee's work based on this meeting's discussions will be doing so prematurely.

Furthermore, individual committee members often engage in discussion and questioning for the specific purpose of probing an issue and sharpening an argument. The comments of any given committee member may not necessarily reflect the position he or she may actually hold on the subject under discussion, to say nothing of that person's future position as it may evolve in the course of the project. Any inference about an individual's position are therefore also premature.

**For Presenters:** Your presentation should not include unpublished data, ITAR controlled and/or other sensitive information. At some point a staff member will be asking you to sign a consent form allowing us to use your presentation, specifically to post it on our website.

**Working Dinner:** Due to a very recent change in SSB policy, committee dinners will henceforth be regarded as closed sessions and are therefore no longer open to guest speakers and others.

**Remote Access:** This meeting will be livestreamed via Vimeo.

| Date       | Livestream Link   |
|------------|---|
| October 24 | <a href="https://vimeo.com/event/3785292">https://vimeo.com/event/3785292</a> |
| October 25 | <a href="https://vimeo.com/event/3785294">https://vimeo.com/event/3785294</a> |