<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>7:30am</td>
<td>Room opens (breakfast available in meeting room)</td>
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<tr>
<td>8:30am</td>
<td>Meeting convenes</td>
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<tr>
<td></td>
<td>Welcome</td>
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<td></td>
<td>• Wanda Sigur, STIGUR Chair</td>
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<td>• Jim Reuter, NASA Space Technology Mission Directorate (STMD) Associate Administrator (Acting)</td>
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<tr>
<td>8:40am</td>
<td>NASA and STMD Update: Programs, Organization, and Budget</td>
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<td></td>
<td>• Jim Reuter, STMD Associate Administrator (Acting)</td>
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<td>• Steve Jurczyk, NASA Associate Administrator</td>
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<td>Key Questions</td>
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<td>Regarding the FY 2019 budget request; the Agency’s new exploration direction; and STMD’s strategic framework:</td>
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<td>• How will the proposed changes impact Human Exploration, Science, and Aeronautics missions?</td>
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<td>• Who are the major stakeholders in the most likely reorganization options? Where and why have they established their positions?</td>
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<td>• How will the potential changes affect the technology mission of NASA? Are there expected changes to how technology objectives and missions will be established?</td>
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<td>9:40am</td>
<td>STIGUR Feedback and Discussion</td>
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<td>10:00am</td>
<td>Break</td>
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Panel on Space Nuclear Power:
Small Fission Reactors and Advanced Radioisotope Power Systems (RPS)
This session will review and discuss research and development related to small fission reactors and advanced RPS: current status, next steps, and potential applications. The session will consist of a series of short presentations to be followed a general discussion with roundtable members. (Background information on the STMD’s Kilopower small fission reactor project is available at www.nasa.gov/directorates/spacetech/kilopower.)

Key Questions
- What results to date have been achieved in developing (1) fission power systems, (2) advanced RPS, and (3) associated power conversion systems? What are the next steps?
- What results to date have been achieved in addressing issues related to flight certification of new operational systems? What are the next steps?
- What potential applications of a small fission reactor system, advanced RPS, and advanced power conversion systems will provide the most value added to space science and exploration missions?
- What additional high-priority steps are needed to develop operational systems?
- What is the timeframe in which new operational systems could be fielded for key applications of interest?
- What are the prospects for evolving systems currently under development to provide greater power and thereby have the ability to support a broader range of applications?

10:10am  Introduction
- Moderator: Doug Cooke, STIGUR member

Opening Remarks
10:15am  Overview of Results to Date and Next Steps
- Jim Reuter, STMD Associate Administrator (Acting)

10:30am  Systems, Missions, and Opportunities for Space Nuclear Power
10 minutes each
- Lee Mason, Glenn Research Center
- Bhavya Lal, IDA Science and Technology Policy Institute
- David Schurr, NASA, Planetary Science Division
- Tony Antonelli, Lockheed Martin, Deep Space Exploration
- Alan Stern, Consultant
- Jonathon Cirtain, BWX Technologies

Discussion
11:30pm  STIGUR Feedback and Discussion

12:30pm  Lunch
Panel on Lunar Exploration Visions and Technologies
This session will focus on current plans and future visions for human and robotic exploration of the lunar surface and cislunar space. The session will consist of a series of short presentations to be followed a general discussion with roundtable members.

Key Questions
- What is NASA’s Gateway Vision?
- What are the recent updates to the STMD lunar exploration programs? How have they evolved in the last 2 years?
- Have the STMD technology program accomplishments been linked to mission objectives?
- Has an assessment of prior lunar development efforts been performed? Have they been linked to current programs?
- What objectives can NASA’s lunar exploration program be reasonably expected to accomplish over the near and far term and what key technologies are needed to achieve these objectives?
- In addition to the Gateway Vision, what other lunar exploration visions should be considered?
- How do key exploration technologies support the lunar exploration visions? How do they support the schedule?
- What are the near-term expectations and assumptions regarding NASA’s support of the Lunar Exploration technology development?
- To what extent can systems relevant to Mars exploration be validated on the moon?

1:30pm Introduction
- Jim Free, STIGUR member

Opening Remarks
1:35pm Status of STMD Lunar Exploration Program
- Jim Reuter, STMD Associate Administrator (Acting)

1:50pm Lunar Exploration Roadmap
- Clive Neal, Lunar Exploration and Analysis Group (LEAG)

2:05pm Lunar Exploration Vision of the International Space Exploration Coordination Group
- John Guidi, NASA Human Exploration and Operations Mission Directorate

2:20pm Industry Perspectives
15 minutes each
- John Thornton, Astrobiotic
- Peter McGrath II, Boeing
- Robert Chambers, Lockheed Martin
- Josh Brost, SpaceX

3:20pm Break

Discussion
3:30pm STIGUR Feedback and Discussion

4:30pm Summary, Feedback, Actions, and Plans for the Next Meeting (March 14, 2019)

5:00pm Adjourn
The Space Technology-Industry-Government-University Roundtable of the National Academies of Sciences, Engineering, and Medicine convenes senior-most representatives from industry, universities, NASA, and other government agencies to define and explore critical issues related to NASA’s space technology research agenda that are of shared interest; to frame systems-level research issues; and to explore options for public-private partnerships. This forum is designed to facilitate candid dialogue among attendees to foster greater partnership among the NASA-related space technology community, and, where appropriate, carry awareness of consequences to the wider public.