The Future of Planetary Radio Astronomy with Single-Dish Telescopes Workshop
Preliminary Agenda (June 3 2015 version)

Monday, June 8 2015

7pm – 10pm
Welcome reception – Residence Hall lounge

Tuesday, June 9 2015

7:30am Breakfast – Cafeteria

Session 1 – Jansky Auditorium
(Chair: Alyson Ford)

9:00am **Welcome**
Tony Beasley – NRAO

9:15am **The Green Bank Telescope and Planetary Science: resources and projects** (I)
Jay Lockman – NRAO

10:00am **Passive Single-Dish Observations of Small Bodies** (I)
Amy Lovell – Agnes Scott College

10:45am Break

Session 2
(Chair: Frank Ghigo)

11:00am **Planetary Radar Mapping for the Next Decade** (I)
Bruce Campbell – Smithsonian Institution

11:45am **Assessing Lunar Regolith Maturity From a Variety of Perspectives** (C)
Joshua Cahill – JHU Applied Physics Laboratory

12:00pm **Mini-RF/Arecibo Observatory Bistatic Observations of the Moon** (C)
Gerald Patterson – Johns Hopkins University Applied Physics Laboratory

12:15pm **Subsurface layering in mare regions revealed in Mini-RF data of crater ejecta** (C)
Angela Stickle – JHU Applied Physics Laboratory

12:30pm Lunch – Cafeteria

Session 3
(Chair: Amy Lovell)

1:30pm **Single-dish radio telescopes and the exoplanet research** (I)
Alex Wolszczan – Penn State University

2:15pm **Search for Molecular Outflows from The Disintegrating Exoplanet KIC 12557548b** (C)
David Blank – James Cook University

2:30pm **Planetary Radar for the Active Search for Extraterrestrial Intelligence (Active SETI)** (C)
Doug Vakoch – SETI Institute

2:45pm Break

Session 4

3:15pm Panel discussion/Q&A period

5:30pm Dinner – Mountain Quest
Meet at front of Jansky Lab for carpooling at 5:00pm.

8:00pm Informal discussions and drinks – Residence Hall Lounge

Wednesday, June 10 2015

7:30am Breakfast – Cafeteria

Session 5
(Chair: Don Campbell)

9:00am **Radar Observations of Near-Earth Asteroids** (I)
Lance Benner – Jet Propulsion Laboratory, California Institute of Technology

9:45am **Capabilities and Comparisons of Ground-Based Radar Facilities for Near-Earth Asteroid Observations** (C)
S. P. Naidu – Jet Propulsion Laboratory, California Institute of Technology

10:00am **NASA's Near Earth Object Program** (I)
Lindley Johnson – NASA HQ

10:45am Break

Session 6
(Chair: Lance Benner)

11:15am **Bistatic Radar Observations With Large Radio Telescopes** (C)
Michael Busch – SETI Institute

11:30am **Bistatic Observations of Slowly Rotating Small Asteroids** (C)
Patrick Taylor – Arecibo Observatory

11:45am **Radar-developed asteroid shapes and spins reveal a preferred state of maximum surface stability** (C)
James Richardson – Arecibo Observatory

12:00pm **Using Structure Functions to Analyze Uncertainties in Radar-Based Shape Modeling** (C)
Sean Marshall – Cornell University

12:15pm **Development of Long-Code Capability at Goldstone and Initial Results for NEA (357439) 2004 BL86, Venus, and Galilean Satellites** (C)
Joseph McMichael – Jet Propulsion Laboratory

12:30pm Lunch – Cafeteria

Session 7
(Chair: Alyson Ford)

1:30pm **Considerations of a Planetary Radar System for the GBT** (I)
John Ford – NRAO

2:15pm **Workshop Summary**
Don Campbell – Cornell University

3:00pm Green Bank Telescope Tour

6:00pm Dinner – Cafeteria

7:30pm Informal discussions and drinks – Residence Hall Lounge

Thursday, June 11 2015

7:30am Breakfast – Cafeteria