Charter
VEXAG Technology Development and Laboratory Measurements Focus Group
Tibor Kremic (GRC) Lead

Focus Group Members
Mike Amato, Tibor Balint, Pat Beauchamp, Jim Cutts, Jeffery Hall, Gary Hunter, Noam Izenberg, Natasha Johnson, Upendra Singh, Steve Smith, Raj Venkatapathy

The Technology Development and Laboratory Measurements (VTDLAM) Focus Group is chartered by the VEXAG to provide the Venus scientific community with an assessment of current and future technologies and a definition of laboratory measurements that support the scientific exploration of Venus over the next several decades. This assessment will be consistent with mission needs as outlined in the Venus Exploration Goals and Objectives document(s) and the Planetary Decadal survey. The group will also maintain an inventory of the Venus-analog infrastructure that is suitable for science, validation of science measurements, and technologies. The Focus Group will be proactive and help devise technology analysis in response to ongoing progress in the technical disciplines and evolving scientific and mission objectives, and in alignment with VEXAG Technology Plan.

The Focus Group reports to the VEXAG Executive Committee. It also reports status to the Venus community during the annual VEXAG meetings, and the larger scientific community at planetary conferences and meetings as requested of, or deemed appropriate by, the VEXAG executive committee. All interested parties are welcome to participate in the Focus Group meetings and provide ideas and opinions. New members for the Focus Group are recommended by the current Focus Group or a VEXAG executive committee member and then endorsed by the VEXAG executive committee.

The Focus Group will remain active until it is terminated by a future VEXAG decision.

Deliverables
The Technology Development and Laboratory Measurement Focus Group is responsible for:

1. Providing a current inventory of and assessing existing technologies.
2. Maintaining a relevant and current plan for technology development that supports future Venus missions in accordance with the scientific needs of the Venus community and the VEXAG.
3. Defining new laboratory measurements that are needed to meet the key science objectives as identified by VEXAG documents.
4. Maintaining a current inventory of operational test-beds and test capabilities at different institutions and providing an assessment for new capabilities development that may be needed.
5. Communicating activities and plans in report, presentation, and/or paper format as appropriate.
6. Organizing and implementing periodic technology and laboratory focused workshops and events in support of other VEXAG sponsored activities.
   a. The first of these is planned for early 2015 in follow-up to the Venus Explorations Targets workshop held in May 2014