

## **TIG: Technology Interest Group**

### **Charter**

Each year the Cosmic Origins (COR) Program Office solicits input from the community on technology gaps that should be developed and invested in by NASA to enable and advance the capabilities of the agency to achieve the goals of the various NASA Astrophysics Roadmaps. This input is assembled by the COR office to form the first draft of a Technology Gaps list that lays out the areas of promising development and need that still require investment by NASA through their various funding opportunities. The content in the list can roll over from year to year as well as include any new input received annually, and is subsequently evaluated by a Technology Management Board (TMB). Prior to TMB evaluation, the list is forwarded by the COR office to the Cosmic Origins Program Analysis Group (COPAG) Executive Committee (EC) for review to perform an initial analysis of the input received. The feedback is then returned to the COR office for submission to the TMB for consideration with their review. Ultimately the final version is then published to the community in the Program Annual Technology Report (PATR<sup>1</sup>).

The COPAG seeks to form a Technology Interest Group (TIG) open to all community members that will provide professional input concerning the content of the collated Technology Gap list. In order to provide competent and wide-ranging assessment of the Technology Gaps assembled by the COR Technology Program, it is a goal of the TIG to assemble a membership that comprises members of both the astrophysics technology community and the relevant professional industries, as well as any additional community members who can bring expertise or insight into the process. The COPAG seeks to provide as competent an assessment as possible of the Technology Gaps to determine if there is duplication, or whether separate entries can be combined, and whether there are any technologies missing, before passing it back to the Cosmic Origins Program Office for their TMB review.

Through the TIG, the astrophysics community will assess the current list of technical gaps and submit its findings to the COR office before the COR Technical Management Board (TMB) meets. The TIG will facilitate communication that will merge the needs and desires of the science community with the achievements and plans of the broader technology community. The TIG will actively reach out to technology associations, government and university laboratories, industry and trade groups inside and outside the field of astrophysics and space sciences to independently validate state-of-the-art assessments and verify astrophysics technology gaps across several disciplines, commercial suppliers, and applications. It is possible, for instance, that gaps identified in astrophysics have been solved elsewhere – we seek to bring that perspective to the table.

While the TIG activities are intended to operate year-round, we expect more focused tasks to occur during the late Spring into early Summer, which is the typical timeframe for the input to the Technology Gaps list. The results of the TIG's work will be reported to the COPAG Executive Committee and the Astrophysics Subcommittee. The TIG is open to any interested members of the science and technology community and the COPAG welcomes any participation and all input.

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<sup>1</sup> <http://cor.gsfc.nasa.gov/docs/2015CORPATRRev1.pdf>