

Finding New Ways to do our Business

- Changes in the virtual environment for scientist to scientist
 - Collaborative tools for meetings and science conferences
 - Webex, Adobe Connect, Teams, Zoom, Goweb, . . .
 - Rapid software upgrades and bug fixes improving the collaborative tools to support larger audiences and improvements in usage
 - Ex: NASA's main collaborative tool is the Microsoft Teams system
 - From March to June there were 8 major updates to the Teams software
 - Development of science papers & proposals via eTools (ie: googledocs)
- Rapid increase in the use of Open Access (OA) journals (Ex: Covid19 papers)
 - Anyone can access these papers
 - Use of AI tools mining the papers focuses on completed research/analysis in specific areas
 - Results: Rapid progress in mitigation drugs & new approaches for vaccines
 - We must do more OA publishing enabling rapid progress in other scientific fields!
- Rapid increase in user proficiency and science etool usage
 - Pros and Cons of this new environment are being evaluated resulting in expectation of increased in use in many areas that improve scientific productivity

Expected Changes By NASA

- NASA science: Astrophysics, Earth Science, Heliophysics, Planetary
 - Research Opportunities in Space & Earth Science (ROSES) Call for proposals
 - 2019 had ~110 calls with ONLY 4 virtual panels
 - 2020 have 112 calls with 73 review panels by the end of Sept All virtual
 - Completed ~20 review panels so far with mostly very favorable experience
- After Covid19 expect ~70-80% proposal review panels to be virtual
- Future Scientific Meetings:
 - Many small science conferences will be virtual which will also bring in more scientists who would now be able to attend where they would not due to time or travel constraints (attending portions of the meeting)
- Increased development of science papers & proposals via eTools
- Expectation is less travel and more Open Access publications from NASA funded research