



Overview of Moon Village Global Activities & Lunar Explorers Tribute

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The Moon Village is an open concept proposed with the goal of a sustainable human and robotic presence on the lunar surface as an ensemble where multiple users can carry out multiple activities. [1-3] With special tribute to Apollo 16 & 17 astronauts J. Young, E. Cernan and lunar explorers, we give an update of Moon Village (MV) activities, with emphasis on events that took place in 2017.

Why a Moon Village? Multiple goals of the Moon Village include planetary science, life sciences, astronomy, fundamental research, resources utilisation, human spaceflight, peaceful cooperation, economical development, inspiration, training & capacity building.

How did the Moon Village start? ESA director general has revitalized and enhanced the original concept of MoonVillage discussed in the last decade. Space exploration builds on international collaboration. COSPAR and its ILEWG International Lunar Exploration Working Group (created in 1994) have fostered collaboration between lunar missions [4-8]. A flotilla of lunar orbiters has flown in the last international lunar decade (SMART-1, Kaguya, Chang'E1 & 2, Chandrayaan-1, LCROSS, LRO, GRAIL, LADEE). Chinese Chang'E 3 lander and Yutu rover. Upcoming other landers from 2018 (GLXP, Chang'E 4 & 5, SLIM, Luna, LRP) will constitute a Robotic Village on the Moon.

In 2017, Moon Village Workshops MVWS or sessions were also conducted at international symposia or in collaboration with specific universities or institutes.

*Acknowledgements

We thank Prof J. Woerner (ESA DG) for energizing the concept of MoonVillage. *We acknowledge co-conveners of MoonVillage Workshops and ILEWG EuroMoonMars field campaigns in 2016 and 2017 (including C. Jonglez, V.Guinet, M.Monnerie, A. Kleinschneider, A. Kapoglou, A. Kolodziejczyk, M. Harasymczuk, I. Schlacht, C. Heinicke, D. Esser, M.Gulich, T. Siruguet, H.Vos, M.Mirino, D.Sokolsky, J.Blamont, A.Lillo, P. Evellin, L. Authier, A. Blanc, C. Chahla, A. Tomic, M. Mirino, I. Schlacht, S. Hettrich, T. Pacher) and participants to these events. We thank A.Cowley, C. Haigneré, P. Messina, G. Ortega, S.Cristoforetti, D. Binns, M. Landgraf, M. Trovatiello, ESA colleagues involved in MoonVillage related activities. We acknowledge organisers of MoonVillage & related community workshops (identified by initials in calendar of events and including N.Verschoor, S. Lizy-Destrez, S. Hettrich, H. Gassabian, J.Cami, V. Foing, J.L.Moro, H. Lakk, I. Schlacht, I. Sisaid, E.Garcia Bourne, P-A. Jomel, L. Ferreira, Taisik Lee, J. Silk, A.Decadi, A. Wendler, M. Wilde, T. Pacher, M-P.Boucher, H.Hiesinger, C. Sallaberger, L. Ming, J. Ivey, V. Beldavs, H. Rogers, J. Crisafulli, C. Neal, G. Reibaldi, C. Welch, J. Mankins, A. Kapoglou, E. Sefton-Nash, O. Ben-Horin and others). We thank colleagues from ILEWG, Young Lunar Explorers, the International Lunar Decade Group, the Moon Village Association and Moon Village International Support Group and "MoonVillagers" at large.