

Dark and Quiet Skies for Science and Society Workshop - Programme overview version 18 November 2025

| TUESDAY 9 Dec. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | WEDNESDAY 10 Dec. |                                                                                                                                                                                                                                                                                                                                                                                                                           | THURSDAY 11 Dec. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | FRIDAY 12 Dec.                                                                                          |
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| 9:00           | Registration and coffee/tea                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 9:30              | Coffee/tea                                                                                                                                                                                                                                                                                                                                                                                                                | 9:30             | Coffee/tea                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Training day                                                                                            |
| 10:00          | <b>Welcome</b><br>- Aarti Holla-Maini, UNOOSA Director<br>- Philip Diamond, SKAO Director General                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 10:00             | <b>Keynote on satellite constellations</b><br>Patricia Cooper, Constellation Advisory LLC, USA                                                                                                                                                                                                                                                                                                                            | 10:00            | <b>Keynote on Outer Space Treaty high-level principles</b><br>Tanja Masson-Zwaan, Deputy Director of the International Institute of Air and Space Law, Leiden University, the Netherlands                                                                                                                                                                                                                                                                                                                                                                                                                | Scenario-based training: briefing and clarifications                                                    |
| 10:30          | <b>Status of the Dark and Quiet Skies initiative</b><br>- Nathalie Ricard, UNOOSA<br>- Federico di Vruno, SKAO                                                                                                                                                                                                                                                                                                                                                                                                                                    | 10:20             | <b>Session 3 - satellite constellation projects overview</b><br>- Xu Yanbin, China Satellite Network Group Co., Ltd<br>- Ilsa Mroz, Planet, USA<br>- Thibaut Maury Micolier, Secure connectivity and space surveillance Unit, European Commission<br>- Mario Neri, Telesat                                                                                                                                                | 10:20            | <b>Session 6 - regulatory initiatives started at national level: status and lessons learnt</b><br><i>Chair: Andrew Macpherson, SKAO</i><br>- Marieta Valdivia Lefort and Yana Yakushina, IAU CPS Policy Hub, National Analysis Group<br>- Eduardo Unda-Sanzana, Universidad de Antofagasta, Director of the Astronomy Center (CITEVA), Chile<br>- Marcelo Colazo, Argentina National Commission on Space Activities (CONAE)<br>- Hafiz Umer Hameed Khan, Pakistan Space & Upper Atmosphere Research Commission (SUPARCO)<br>- Nompucuko Nontombana, Independent Communications Authority of South Africa | Team work in individual rooms to finalise output                                                        |
| 10:50          | <b>Keynote International Astronomical Union</b><br>Willy Benz, President of the Union                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |                                                                                                                                                                                                                                                                                                                                                                                                                           |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                         |
| 11:05          | <b>Keynote International Telecommunication Union</b><br>Mario Maniewicz, Director of ITU Radiocommunication Bureau                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |                                                                                                                                                                                                                                                                                                                                                                                                                           |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                         |
| 11:20          | <b>Session 1 - impact assessment after 3 years of observations</b><br><i>Chair: Piero Benvenuti, Director of IAU Centre for Protection of Dark and Quiet Skies (CPS)</i><br>- Meredith Rawls, University of Washington/Vera C. Rubin Observatory, USA<br>- Cui Chenzhou, National Astronomical Observatories, Chinese Academy of Sciences<br>- Gregory Hellbourg, California Institute of Technology, USA<br>- Ammar Eissa Mohammed Abdulla, Sharjah Academy for Astronomy, Space Sciences and Technology, UAE                                    | 11:20             | <b>Session 4 - role of academia and governmental organisations to foster mitigation actions</b><br><i>Chair: Jessica Dempsey, Director of the Netherlands Institute for Radio Astronomy (ASTRON)</i><br>- Jan Siminski, European Space Agency<br>- Astha, University of Surrey, UK<br>- Funmilola Oluwafemi, National Space Research and Development Agency, Nigeria<br>- Roohi Dalal, American Astronomical Society, USA | 11:40            | <b>Panel 4 - achieving success at COPUOS: lessons learnt</b><br><i>Moderator: Aarti Holla Maini, UNOOSA</i><br>- Ulpia-Elena Botezatu, Romania, Chair, Scientific and Technical Subcommittee and Co-Chair, Action Team on Lunar Activities Consultation<br>- Mila Francisco Ferrada, Deputy Head of Mission, Embassy and Permanent Mission of Chile in Vienna<br>- Veronique Glaude, International Telecommunication Union                                                                                                                                                                               | Scenario final clarifications to individual teams                                                       |
| 12:45          | <b>Pitch - impact assessment</b><br>- Ericsson López Izurieta, Quito Astronomical Observatory, Ecuador<br>- Biruk Abte, Space science and geospatial institute, Ethiopia<br>- Narae Hwang, Korea Astronomy and Space Science Institute                                                                                                                                                                                                                                                                                                            | 12:20             | <b>Pitch - looking to the future and learning from other sectors</b><br>- Kristina Vukosavljević, Delft University of Technology, the Netherlands<br>- Stefan Wallner, Slovak Academy of Sciences<br>- Andrew Lawrence, University of Edinburgh, UK                                                                                                                                                                       |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                         |
|                | LUNCH BREAK 13:00-14:00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   | LUNCH BREAK 12:30-13:30                                                                                                                                                                                                                                                                                                                                                                                                   |                  | LUNCH BREAK 13:00-14:00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | LUNCH BREAK                                                                                             |
| 14:00          | <b>Session 2 - status of astronomers mitigation actions</b><br><i>Chair: Beatrice Kioko, European Organisation for Astronomical Research in the Southern Hemisphere (ESO)</i><br>- Constance Walker, IAU CPS and NSF NOIRLab, USA<br>- Olivier Hainaut, ESO<br>- Erick Meza Quispe, Peruvian Space Agency CONIDA<br>- Nicolas Cerardi, Ecole Polytechnique Fédérale de Lausanne (EPFL), Switzerland<br>- Federico Di Vruno, SKAO                                                                                                                  | 13:30             | <b>Panel 2 - satellite industry mitigation: who tried what?</b><br><i>Moderator: Patricia Cooper, Constellation Advisory LLC, USA</i><br>- Enrique Allona Pérez, Eutelsat, France<br>- Josef Koller, Amazon Kuiper, USA<br>- David Goldstein, SpaceX, USA<br>- Ray Sedwick, AST SpaceMobile, USA                                                                                                                          | 14:00            | <b>Session 7 - Proposals and schedule of preparation until STSC/COPUOS 2026</b><br><i>Chair: Federico di Vruno, SKAO</i><br>- Rafael Moro Aguilar, Florida International University, USA/Spain<br>- Tarcísio Bakaus, ANATEL National Telecommunications Agency of Brazil<br>- Aaron Boley, University of British Columbia, Canada<br>- Giuliana Rotola, International Astronomical Union CPS Policy Hub Co-Lead<br>- Richard Green, University of Arizona / International Astronomical Union and Group of Friends of the Dark & Quiet Sky, USA<br><i>Other speakers to be announced</i>                  | Discussion session: teams present their replies to the set of questions, followed by Q&A with panelists |
| 15:15          | <b>Pitch - mitigation actions</b><br>- Sarah Thiele, Princeton University, USA<br>- Stanislav Karpikov, StealthTransit Laboratories, Germany<br>- Nacera Bekhadda, Algerian Space Agency                                                                                                                                                                                                                                                                                                                                                          | 15:00             | <b>Pitch - industry mitigation actions</b><br>-Agnieszka Sybilska, Sybilla Technologies, Poland<br>- Ryan Moodie, 3S Northumbria, UK                                                                                                                                                                                                                                                                                      |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Scenario-based training: lessons learnt and wrap-up                                                     |
|                | BREAK 15:30-16:00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   | BREAK 15:15-15:45                                                                                                                                                                                                                                                                                                                                                                                                         |                  | BREAK 15:15-15:45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | End of training 16:00                                                                                   |
| 16:00          | <b>Pitch - other activities impacted</b><br>- Vachik Khachatryan, Space42, Armenia<br>- Ruskin Hartley, DarkSky International, USA                                                                                                                                                                                                                                                                                                                                                                                                                | 15:45             | <b>Session 5 - Interactions astronomers, industry and regulators: lessons learnt</b><br><i>Chair: Mamatha Maheshwarappa, UK Space Agency</i><br>- Tebogo Mashile, Department of Science Technology and Innovation, South Africa<br>- Siegfried Eggli, University of Illinois Urbana-Champaign, Austria/USA<br>- Joan Chepkemoi, Kenya Space Agency<br>- Audrey Allison, Aerospace Corporation, USA                        | 15:45            | <b>Panel 5 - looking forward to STSC-2026</b><br><i>Moderator: Aarti Holla Maini, UNOOSA</i><br>Speakers to be announced                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                         |
| 16:10          | <b>Panel 1 - keeping a balance to preserve social and cultural use of dark and quiet skies</b><br><i>Moderator: Jessica Heim, University of Southern Queensland and IAU CPS</i><br>- Songphon Munkongsujarit, National Astronomical Research Institute of Thailand (NARIT)<br>- Shea Esterling, University of Canterbury, New Zealand<br>- Antonia Wibowo, National Research and Innovation Agency, Indonesia<br>- Joyful Mdhului, IAU Office of Astronomy for Development, South Africa<br>- Anubhav Prakash, Satcom Industry Association, India | 16:25             | <b>Pitch - gaps identified</b><br>- Megan Perks, University of Southampton, UK                                                                                                                                                                                                                                                                                                                                            | 17:00            | END of Workshop                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                         |
|                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 16:30             | <b>Panel 3 - Interactions astronomers/industry: gaps identified and proposals</b><br><i>Moderator: Tim Stevenson, SKAO</i><br>- Sara Lucatello, European Astronomical Society<br>- Samuel Nyangi Kihuha, Space in Africa, Kenya<br>- Artem Mokhnatkin, Keldysh Institute of Applied Mathematics of the Russian Academy of Sciences, Russian Federation/Serbia<br>- Jeff Shaddix, Slingshot Aerospace, USA                 |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                         |
| 17:40          | <b>Wrap-up and information for Day-2</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 17:55             | <b>Wrap-up and information for Day-3</b>                                                                                                                                                                                                                                                                                                                                                                                  |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                         |
| 18:00          | ADJOURN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 18:00 to 19:30    | NETWORKING RECEPTION<br>Vienna International Centre, Mozart Room                                                                                                                                                                                                                                                                                                                                                          |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                         |