Research campaigns

As you may know it was initially planned to organize some traditional in-person, on-site research campaigns co-located with LPTMM-2022. The evolution of covid and the feedback received from several participants led us to finally abandon this plan. We are happy, however, of contributing to foster cooperation by disseminating among the LP community the interesting proposals for collaborative research organized by several independent groups in different places of the world.

Please note that LPTMM does not organize these campaigns and does not accept any liability for them: it will simply inform about their existence to all LPTMM presenters and conference attendees, and provide time slots for dedicated talks and poster space during the meeting. It is the responsibility of the campaign leaders to accept or not collaborators, to decide how to develop the campaigns (including all relevant matters, e.g. logistics, insurance if needed, publication of results, and so on) and to solve any issue arising in the planning or development steps.

- Illumina v2 model validation experiment.

Promoted and lead by Hector Linares, Martin Aubé and Alexandre Simoneau (contact: hector.linares.arroyo@usherbrooke.ca)

From the promoters: "In this proposal, we ask the international research community to perform ground thrusting experiments to evaluate the impact of different processes and input data in order to validate the modeling tool and identify future corrections in an optimization perspective. We propose to do so with the Illumina V2 model, which is currently one of the most complete and advanced models."

- Light pollution at the local scale.

Promoted and lead by Salva Bará (contact: salva.bara@usc.gal)

From the promoter:"The physics of the scattering processes suggest that, in highly lit areas, nearby light sources (at less than ~100 m from the observer) may be responsible for a fair share of the artificial night sky brightness seen by the observer. The purpose of this research campaign is to develop the theoretical models and to gather the experimental evidence required to substantiate these claims."

- Natural Dark Skies.

Three related individual campaigns on:

Measurements in Europe and Namibia, promoted and lead by Andreas Hänel, May-June 2022 (contact: ahaenel@uos.de)

Workshop in the Sölktälar Naturpark and Establishing a Central-European Reference-sky Location, promoted and lead by Zoltán Kolláth, April 2022 (contact: zkollath@gmail.com)

Measurement of night sky brightness and changes in direct ALAN during Earth Hour 2022, and Measurement of night sky brightness and during overcast and clear conditions at extremely urban sites and extremely dark sites, promoted and lead by Andreas Jechow (contact: andreas.jechow@igb-berlin.de)

- Nachtlichter app campaign.

Promoted and lead by Christopher Kyba (contact: kyba@gfz-potsdam.de)

From the promoter: "Until April 13, we are conducting an experiment on lighting change over the course of the night by conducting repeated lighting surveys using the Nachtlichter app. Everyone is invited to survey one or more streets in the town they live. More information is here: https://nachtlicht-buehne.de/startseite/nightlights/ "

- Definition of theoretical basis for limiting lighting locations & Critical evaluation of existing lighting recommendations.

Promoted and lead by Aleš Šubic (contact: ales.subic@gmail.com)
From the promoter: "Without theoretical justification and active promotion of such limits the extensive spread of road and street lighting, as well as some other lighting types, e.g. decorative, is unstoppable. The following short presentation gives an idea of what is going on and where the limits could and should be set: http://www.temnonebo.si/wp-content/uploads/2022/03/Stages-of-lighting-propagation-case-Poljane-Slovenia-2.pdf"