

Workshop June 8th & 9th 2022 : Frequency Comb Lidars

Preliminary Program

| | Topics | Title | Author | Institution |
|---------------------------|-------------------------|--|--------------------|-------------|
| Day 1 | Welcome | Check in / registration | | |
| | Introduction | Introduction | Hébert / Bernard | CNES |
| | What was done already | Frequency comb for precision measurement | Coddington | NIST |
| | | DCS at U. Laval (TBC) | Genest | U. Laval |
| | | R&D activities at ONERA / CNES | Lemaître | ONERA |
| | | Discussions | All | |
| | | Lunch | All | |
| | Technical: systems | SCALE principles | Hébert | CNES |
| | | SCALE advantages for retrieval | Lafrique | CNES |
| | | Signal processing for SCALE | Costella | CNES |
| | | Break | | |
| | | Applications of open path dual comb spectroscopy | Cossel | NIST |
| | | Toward an EOFC-based IPDA Lidar for atmospheric CO2 measurements | Cezard / Patiño | ONERA |
| | | Discussions | All | |
| Social event TBD | | | | |
| Day 2 | Technical: technologies | fs optical amplifiers for frequency comb lasers | Loulier | AlphaNov |
| | | Developements of new technics to generate multiple frequency combs in optical fibers | Mussot | PHLAM |
| | | Coherent combination of femtosecond lasers | Chanteloup | X |
| | | Photonic Integrated Photonic Circuits for LiDAR | Stroganov | Ligentec |
| | | Frequency comb based absolute frequency reference for airborne and satellite based multi species differential absorption Lidar systems | Heineke | SpaceTech |
| | | Discussions | | |
| | | Lunch | All | |
| | Projects | Latest researches and developments at Menlo | Aubourg | Menlo |
| | | Towards UV-DCS for atmospheric trace-gases detection | Galtier | ILM |
| | | Development of an airborne demonstrator of SCALE | Tyrou | CNES |
| | | Break | | |
| | | Lidar roadmap at ESA | Mc Kenzie | ASE |
| | | Lidar roadmap at CNES (TBC) | Bret-Dibat / Cugny | CNES |
| | | Discussions | All | |
| Conclusion & perspectives | Close out | Deschamps | CNES | |
| Adjourn | Bye bye | Hébert | CNES | |