

Space Photonics

Disruptive Satellite Laser Communications
and Astrophotonics



Organizers

Stratos Kehayas, CTO, Gooch & Housego PLC

Sergio Leon-Saval, Director, Sydney Astrophotonic Instrumentation Laboratory

Burning questions!

Panel discussion points

1. Why photonics in space & aero – what are the applications?
2. What are the advantages & where are the main challenges?
3. What are the limits of the technology?
4. What is the role of Space Agencies around the globe?
5. Are we going to see mass deployment of lasers on satellites and UAVs?
6. What do we need to do to make this happen?
7. Where are we today wrt commercialization?
8. Who are we competing with?
9. How is the race looking so far?



Panellists & Programme

Session	Title	Speaker
The vision	Space photonics: trends, applications & societal impact	Morio Toyoshima, NICT
	Laser communications & Astrophysics in 2030	Don Cornwell, NASA HQ
Making it happen: Networks	Building high-speed data links from space to ground	Rizwan Parvez, BridgeSat
	Optical networks in the sky	John Schuster, LEOSAT
Discussion #1		
Making it happen: hardware	How to fit an elephant in a mini: Miniaturizing laser terminals	Paul Serra, MIT
	Laser terminals for the masses	Klaus Buchheim, TAS-CH
	Developing & qualifying space hardware	Melanie Ott, NASA GSFC
Discussion #2		