

Day 1 - Tuesday 19 March

Time	Speaker	Affiliation	Title
0800	Registration		
0830	Montes	SOARD	Welcome, opening remarks and safety briefing
0850	Andersen	SOARD	The Southern Office of Aerospace Research and Development
0920	Marcassa	U Sao Paulo, BRA	Interactions between cold Rydberg atoms
0940	Mendonca	U Sao Paulo, BRA	Two-photon spectroscopy in organic materials and polymers
1000-1030	Coffee Break		
1030	U'Ren	UNAM, MEX	Recent progress in the exploitation of two-photon sources: metrology and orbital angular momentum correlations
1050	Maze	PUC Santiago, CHL	Optical and magnetic properties of quantum emitters in diamond
1110	Kopelevich	UNICAMP, BRA	Superconductors
1130	Cohen	Western Sydney U, AUS	Event-based Imaging
1210	McHarg	USAF Academy, USA	Overview of Upper Atmospheric and Space Research at the Air Force Academy
1230-1400	Lunch		
1400	Hevia	PUC Santiago, CHL	The Chilean Neuromorphic Initiative
1420	Altbir / Allende	USACH, CHL	Spin-torque Nano-oscillators for Signal Processing and Storing
1440	Gonzalez-Nilo	U Andres Bello, CHL	Fundamentals of Plasticity and Criticality in Thermally Regulated Ion Channels
1500	Perez-Acle	Cienciavida, CHL	Dual Topology Adaptive Neural Network Mimicking the Visual System of Mammals
1520	Escobar	U Tech Fed Santa Maria, CHL	Retina-based visual module for navigation in complex environments
1540	Ferrer	U Buenos Aires, ARG	Emotion and Trust Detection from Speech
1600-1620	Coffee Break		
1620	Rossi	INPE, BRA	RF Generation Using Nonlinear Transmission Lines
1640	Sollero	UNICAMP, BRA	Multi-Scale Dynamic Failure Modeling of Heterogeneous Materials
1700	Blamey	Fundacion Biocencia, CHL	Biocorrosion and Extremophiles
1720	Vejar	APA / CIDCA, CHL	Biocorrosion
1740	Denis-Alpizar	U Autonoma, CHL	Study of reactive collisions at extreme temperatures relevant to the hypersonic flight regime
1800	Close		
1830	Drinks	DoubleTree Bar	

Day 2 - Wednesday 20 March

Time	Speaker	Affiliation	Title
0800	Montes	SOARD	Opening remarks
0820	Chun	USAF Academy, USA	Falcon Telescope Network
0840	Nilo	U la Serena, CHL	Expanding the FALCON Telescope Network into the data science era: our present work and future perspective
0900	Solis	APA / CIDCA, CHL	Southern Skies
0920	Englehart	AFRL / RV, USA	Spectroscopic identification and characterization of resident space objects.
0940	Hart	U Arizona, USA	Acoustic Monitoring of Geosynchronous Satellites
1000-1030	Coffee Break		
1030	Strojnink	CIO, MEX	Rotationally-shearing interferometer: preliminary results with a simulated solar system
1050	Diaz	U de Chile, CHL	Advances in phased array for ionospheric and magnetospheric measurements
1110	Stepanova	U de Santiago, CHL	Variation of plasma pressure in the magnetosphere during geomagnetic storms
1130	Raulin	U. Psby. Mackenzie, BRA	What can we learn from GHz-to-Mid-Infrared diagnostics of Solar Flares
1210	Costa	PUC-Rio, BRA	Statistics of Ion Density Irregularities and Their Gradients Within Structured Low-Latitude Ionospheric Plasma Bubbles Based on C/NOFS Planar Langmuir Probe Data
1230-1400	Lunch		
1400	Szmigiel / Jeffries	US Army, US Navy	CCDC and ONRG opportunities in S. America
1420	Rubio	USAM	3D Elliptical equations
1440	Moratuwage / Adams	U de Chile, CHL	Birth modelling and filtering of space objects for space situational awareness using random finite sets (RFSs)
1500	Nilo	U la Serena, CHL	Advanced computing techniques for the detection and identification of transient sources
1520	Coquero	Amazon Web Services, USA/CAN	Building Data Lakes and Analytics on AWS
1540	Solar	U Tech Fed Santa Maria, CHL	Chilean Virtual Observatory: Tools and cloud services
1600-1620	Coffee Break		
1620	Sampath	Stonybrook U, NY	Multilayer thermostructural coatings for advanced aerospace propulsion systems
1640	Trapaga / Poblano	CIATEQ, MEX	Modelling the thermomechanical response of multi-material multi-layered multi-functional ceramic-metal coating architectures
1700	Quevedo	U Texas Dallas, USA	Thin-Film based Large Area Neutron Detection Using Oxides, II-VI and Perovskite Materials
1720	Aguirre	CIMAV, MEX	Chemical Analysis of Materials and Interfaces for Perovskite Based Optoelectric Devices
1740	Idiart	U Int. de Las Platas, ARG	Homogenization Estimates in Two-Phase Viscoelastic Composites
1800	Close		
1930	Social dinner		Liguria Restaurant: Av. Luis Thayer Ojeda 019, Providencia (Liguria.cl)