



DoubleTree by Hilton Santiago-Vitacura, 18th Floor
Av. Vitacura 2727, Las Condes, Santiago, CHILE

Day 1 - Tuesday 19 March

Time	Topic	Speaker
0800-0830	Registration	
0830-0850	Welcome and Safety Briefing	Montes, SOARD
0850-0920	AFOSR International and SOARD	Andersen, SOARD
0920-0940	Interactions between Cold Rydberg Atoms	Marcassa, U Sao Paulo, BRA
0940-1000	Two-photon Spectroscopy in Organic Materials and Polymers	Mendonca, U Sao Paulo, BRA
1000-1030	BREAK	
1030-1050	Metrology and Orbital Angular Momentum Correlations in Two-photon Sources	U'Ren, UNAM, MEX
1050-1110	Optical and Magnetic Properties of Quantum Emitters in Diamond	Maze, PUC Santiago, CHL
1110-1130	Insulator-Metal Transition and Superconductivity in CuCi	Kopelevich, UNICAMP, BRA
1130-1210	Neuromorphic Imaging with Event-based Sensors	Cohen, Western Sydney U, AUS
1210-1230	Extreme Compressive All-sky Tracking Camera (XCATCAM)	Vera, PUC Valporaiso, CHL
1230-1400	LUNCH	
1400-1420	The Chilean Neuromorphic Initiative	Hevia, PUC Santiago, CHL
1420-1440	Spin-torque Nano-oscillators for Signal Processing and Storing	Allende, U de Santiago de Chile
1440-1500	Fundamentals of Plasticity and Criticality in Thermally Regulated Ion Channels	Gonzalez, U Andres Bello, CHL
1500-1520	Adaptive Neural Network Mimicking the Visual System of Mammal	Perez-Acle, Fund. Ciencia y Vida, CHL

1520-1540	Retina-based Visual Module for Navigation in Complex Environments	Escobar, U Tech Fed Santa Maria, CHL
1540-1600	A Novel Approach to Exchange Bias	Kiwi, U de Chile, CHL
1600-1640	BREAK	
1620-1640	Riboswitches and RNA Polymerase	Blamey, Fundacion Biocencia, CHL
1640-1700	RF Generation Using Nonlinear Transmission Lines	Rossi, INPE, BRA
1700-1720	Multi-Scale Dynamic Failure Modeling of Heterogeneous Materials	Sollero, UNICAMP, BRA
1720-1740	Emotion and Trust Detection from Speech	Ferrer, U Buenos Aires, ARG
1740-1800	Biocorrosion	Vejar, FACH / CIDCA, CHL
1800	MEETING ADJOURN	
1830	Drinks	DoubleTree Bar



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Day 2 - Wednesday 20 March

Time	Topic	Speaker
0800-0830	Registration	
0830-0840	Opening Remarks	Montes, SOARD
0840-0900	Falcon Telescope Network	Chun, USAF Academy, USA
0900-0920	Expanding the FALCON Telescope Network into the Data Science Era: Our Present Work and Future Perspective	Nilo, U la Serena, CHL
0920-0940	Acoustic Monitoring of Geosynchronous Satellites	Hart, U Arizona, USA
0940-1000	Rotationally-shearing Interferometer: Preliminary Results with a Simulated Solar System	Strojnink, CIO, MEX
1000-1030	BREAK	
1030-1050	Birth Modelling and Filtering of Space Objects for SSA using Random Finite Sets (RFSS)	Moratuwage / Adams, U de Chile
1050-1110	Advanced Computing Techniques for the Detection 7 Identification of Transient Sources	Nilo, U la Serena, CHL
1110-1130	Advances in Phased Array for Ionospheric and Magnetospheric Measurements	Diaz, U de Chile, CHL
1130-1150	Variation of Plasma Pressure in the Magnetosphere during Geomagnetic Storms	Stepanova, U de Santiago de Chile
1150-1210	What can we Learn from GHz-to-Mid-Infrared Diagnostics of Solar Flares	Raulin, U. Psby. Mackenzie, BRA
1210-1230	Statistics of Ion Density Irregularities & their Gradients within Structured Low-latitude Ionospheric Plasma Bubbles Based on C/NOFS Planar Langmuir Probe Data	Costa, PUC-Rio, BRA
1230-1400	LUNCH	

1230-1400	LUNCH	
1400-1420	DDCD & ONRG Opportunities in S. America	Szmigiel / Jeffries, US Army, US Navy
1420-1440	Building Data Lakes and Analytics on AWS	Coquero, Amazon Web Services, USA/CAN
1440-1500	Chilean Virtual Observatory: Tools and Cloud Services	Solar, U Tech Fed Santa Maria, CHL
1500-1520	Reactive Collisions at Extreme Temperatures Relevant to the Hypersonic Flight Regime	Denis-Alpizar, U Autonoma, CHL
1520-1540	Determination of the Effective Permittivity of Composite Materials	Rubio, U N San Martin, ARG
1540-1600	New Multi-Scale Based Damage Evolution & Failure Models in Composite Structures	Tita, U Sao Paulo, BRA
1600-1620	BREAK	
1620-1640	Multilayer Thermostructural Coatings for Advanced Aerospace Propulsion Systems	Sampath, Stonybrook U, NY
1640-1700	Thermomechanical Considerations for the Design of Multi-layered Multi-material Thermal Barrier Coatings	Jiminez, CIATEQ / CIDESI, MEX
1700-1720	Thin-Film Large Area Neutron Detection Using Oxides, II-Ii and Perovskite Materials	Quevedo, U Texas Dallas, USA
1720-1740	Chemical Analysis of Materials and Interfaces for Perovskite Based Optoelectric Devices	Aguirre, CIMAV, MEX
1740-1800	Homogenization Estimates In Two-Phase Viscoelastic Composites	Idiart, U Int. de Las Platas, ARG
1800	MEETING ADJOURN	
1930	Social Dinner	Km0 Bistro