

Wenceslas (Celas) Marie-Sainte

Short Biography

Wenceslas (Celas) Marie-Sainte is a scientist, engineer, and assistant researcher in Astrophysics for IceCube Neutrino Observatory and winterover currently based at the Amundsen-Scott South Pole Station in Antarctica through the University of Wisconsin-Madison. The IceCube Neutrino research project is a global collaboration of 300 researchers from 53 institutions in 12 countries that carry out research with the neutrino detector which consists of thousands of sensors located under the Antarctic ice which detect these subatomic particles which provide information on astrophysical sources: events like exploding stars, gamma-ray bursts, and cataclysmic phenomena involving black holes and neutron stars. Celas previously held a position for a 12-month wintering period with 12 people in the French-Italian Concordia Station located in the inner Antarctica where he managed 9 different scientific programs, γ in geophysics (physics of atmosphere, seismology and geomagnetism), as well as astronomy with the the ASTEP project (Antarctic Search for Transiting ExoPlanets), a telescope designed for exoplanet transit detection. Prior to this role, Celas was a Research Engineer at Centre d'Etudes Spatiales de la Biosphère (Center for Space Studies of the Biosphere) in Toulouse, France where he contributed to the GeoRice research project, a big data platform funded by the European Space Agency using Earth Observation data from satellite Sentinel-1, for rice paddie monitoring over the Mekong river delta where is worked on computer programming for geospatial data processing. Celas holds a B.S. degree from the Politehnica University of Timisoara In Electronic and Industrial Computing, a B.S. degree Université de Rennes (France) In Electronic and Telecommunication, Engineering degree from INSA Rennes (France), Electrical, Electronics and Communications Engineering, and a M.S. Signal and Image Processing, Electronic and Telecommunication Université de Rennes (France).