Abstract for keynote address, UML World conference, June 12-15, New York, NY

As NASA strives to do things "faster, better, cheaper" even old dogs are learning new tricks. The world of scientific computing, a stronghold of Fortran and structured programming, is slowly moving to embrace object technology. The Tropospheric Emission Spectrometer (TES) project is part of NASA's Earth Observing System (EOS). TES will be the first EOS instrument team to implement their ground data processing system using C++ and objects. The design work for this 500,000 line system is being done using the UML. Steve Larson, manager of the ground system development, will share some of the team's experiences learning to use objects and the UML.