Space Applications Parallel Session

Tuesday 10 October, 17:00 – 18:10
Petteri Nieminen (ESA/ESTEC)

- **Recent NASA-related developments (M. Asai)   5 min**
    - GEANT4-SPENVIS workshop at JPL
    - RADSAFE application ongoing: 3 years development. Geant4-TCAD connection. Implementation of charge transport in Geant4. SLAC, Vanderbilt, NASA Marshall, NASA Goddard, Univ. Florida.
    - [Question from Fan]: GLAST simulation framework. GLAST people no longer in the Collaboration.
- **Recent JAXA-related developments (T. Sasaki)   5 min**
    - GEANT4 application to Japanese missions from 2006 to future
    - "Suzaku" X-ray satellite instruments
    - Various missions in collaboration with ESA (BepiColombo)
    - Balloon mission PoGOLite
    - GSC/MASI
    - Swift/BAT
    - INTEGRAL/IBIS
    - NeXT
- **Recent ESA-related developments (G. Santin)   5 min**
    - Outline of ESA-related developments
    - Collaborations, contractors
    - Geometry developments
    - Inverse MC development
- **Other space-related developments in various institutes and organisations**
    - QinetiQ (REAT-MS. Tessellated solid, STEP interface), EPT example converted from CAD to Geant4 (works and should be quite fast, order of tens of seconds). Also a very complex electronics box example.
    - REAT-MS PhaseII with eta_max and TRAD
    - LIP: Mars activities (MarsREC). Interface to Mars Climate Database and local geology. CAD file interface required for component analyses.
    - IPRD06: Geant4-DNA project presented. Biological/cellular models implemented and described. NASA SRHP two senior representatives attended the G4 course in Siena.

- **Recent (IEEE NSREC, COSPAR, RADECS, IPRD06,…) and imminent (JPL GEANT4-SPENVIS, IEEE NSS,…) events with a GEANT4 connection. Trends and new applications / requirements?**
    - Conferences, workshops. How to organise these from Collaboration point of view ("splash" one/some of them with a large number of abstracts?)
- **"Emerging space markets" such as India and China – should the Collaboration have a strategy?**
- **Mechanisms to support young Collaborators and students in the space domain**