Geant4 Publication Board and Web Pages

Geant4 Review
9 November 2012
Dennis Wright (SLAC)

Outline

- Publication Policy and Procedures
  - Publication Board and its organization
  - Review and publication procedure
  - Publications in 2012
- Web pages
  - Current pages
  - Lessons learned
  - Plans

Publication Policy

- Text:
  - geant4.cern.ch/collaboration/Geant4CollabotationPublicationPolicy.pdf

- Specifies what is, and what is not, a Geant4 publication

- Defines authorship rules

- Provides a process by which papers may be approved by the collaboration

- Establishes the Publication Board

- Defines responsibilities of Publication Board and reviewers

Publication Board

- Origin:
  - Created by Steering Board in August 2010

- Charge:
  - ensure quality, correctness, uniformity and timeliness of Geant4 publications
  - implement the Geant4 publication policy, covering journal and conference publications

Publication Board Web Page

- geant4.cern.ch/collaboration/pub_policy.shtml
- Public page

- Guidelines for submission, review and approval
  - things for reviewers to look for in paper
  - spells out review and approval process

- Dispute resolution policy
  - appeal sequence: reviewers -> pub board -> steering board

- Posting and tracking of publications
  - link to indico review page

Pub Board Organization (1)

- Membership
  - three members, chosen from Steering Board
  - each member serves a three-year term
  - terms are staggered by one year
  - chair of Pub Board is member with the longest tenure on the Board

Pub Board Organization (2)

- Duties
  - appoint review teams
  - determine appropriateness of paper, enforce publication policy
  - resolve conflicts
  - final approval of manuscripts before they are sent to journals/conferences
  - oversee the publication list
  - monitor review process and recommend changes to Steering Board
  - remind people of conference deadlines and of time required for review

Review and Publication Procedure (1)

- Draft submitted to Pub Board
- Pub Board decides if paper satisfies Publication Policy

- Pub board chooses at least three reviewers
- Draft is posted on indico
  - first posting is under the "Review" category which is open only to authors, reviewers and pub board

- Reviewers have two weeks to comment/propose changes
- Based on edited manuscript, reviewers recommend rejection or acceptance to Pub Board

Review and Publication Procedure (2)

- Pub Board must also approve at this stage
  - if so, manuscript is copied to "Collaboration Comment" category which is open to all collaborators (but not public)
- Collaboration members have one week to comment

- Upon passing collaboration review, Pub Board informs authors that paper is approved and may be submitted to journal or proceedings

- After publication, paper is entered into Geant4 publication list and made public

Review Team Responsibilities

- Ensure high quality of paper
  - correctness of contents
  - grammar and spelling
  - check references
- Return comments to authors and pub board in a timely manner
- Assist authors in gathering and addressing comments from the collaboration review

- Make sure author list is correct and appropriate
- If paper is returned from a refereed journal, assist authors in making changes

2012 Publications (conference proceedings)

- Geant4 Electromagnetic Physics for High Statistics LHC Simulations
  - Andreas Schaelicke, Vladimir Ivantchenko
  - CHEP2012 presentation and proceedings

- Roadmap for Geant4
  - Makoto Asai
  - CHEP2012 presentation and proceedings

- Recent Developments in Geant4 Hadronics
  - Julia Yarba
  - CHEP2012 presentation and proceedings

- Creating and Improving Multi-threaded Geant4
  - Xin Dong, Gene Cooperman, John Apostolakis, Sverre Jarp, Andrzej Nowak, Makoto Asai, Daniel Brandt
  - CHEP2012 presentation and proceedings

2012 Publications (conference proceedings)

- Simulation of Light Antinucleus-nucleus Interactions
  - Aida Galoyan, Vladimir Uzhinsky
  - SSP2012 (5th Int. Symp. on Symmetries and Subatomic Physics, Groningen, NL.

2012 Publications (journals)

- Calculation of Nucleus-nucleus Cross Sections in Geant4
  - Vladimir Uzhinsky
  - arXiv:1111.4984v5[hep-ph], 29 August 2012
- New Standard Evaluated Neutron Cross Section Libraries for the Geant4 Code and First Validation
  - E. Mendoza, D. Cano-Ott, T. Koi, C. Guerrero
  - IAEA Nuclear Data Services, INDC(NDS) – 0612, April 2012
- Antinucleus Nucleus Cross Sections in Geant4
  - V. Uzhinsky, J. Apostolakis, A. Galoyan, G. Folger, V.M. Grichine, V.N. Ivanchenko, D.H. Wright
  - Physics Letters B 705, p 235

2012 Publications (journals)

- Geant4 Simulation of Electron Backscattering from Solid Targets
  - A. Lechner, V.N. Ivanchenko, L. Urban, M. Maire, O. Kadri
  - submitted to NIM, October 2011

Current Geant4 Web Pages (1)

- geant4.cern.ch
- Steering Board requested in 2005 that input/design committee be formed to improve web pages
- Based on committee's recommendations, design team formed
  - Ruth McDunn (SLAC)
  - Gunter Folger (CERN)
  - Dennis Wright (SLAC)
- Current web pages designed and implemented between 2005 and 2006
  - content provided by many Geant4 members

Current Geant4 Web Pages (2)

- Goals for design team:
  - establish a uniform look and feel for all Geant4 online materials
  - make pages easy to read and navigate
  - make documents available in multiple formats (html, pdf, ps)
  - make system requiring minimal maintenance
  - be compatible with wide range of computing platforms of various ages

Lessons Learned

- Goals were met for the most part
  - significant improvement over pre-2006 web pages
- Used shtml format for online documents
  - state of the art at the time
  - after six years need something more modern

- Maintaining documents in three formats was time-consuming
- Still a burden to keep web site up-to-date
  - more automation required
  - more developer participation required

Going Forward

- Time for re-design?
  - more flexibility, less maintenance required
  - administrative controls required to make sure online documentation is up-to-date and consistent
  - add some user metrics (hit-counters, etc.)?
  - make it easier to find information (start with a top-10 list?)
  - make developer access easier
- Looking for other formats:
  - Drupal prototype version developed as a test
  - Confluence
  - Docbook (some documents already moved to this)
- Create web page maintenance and development team