

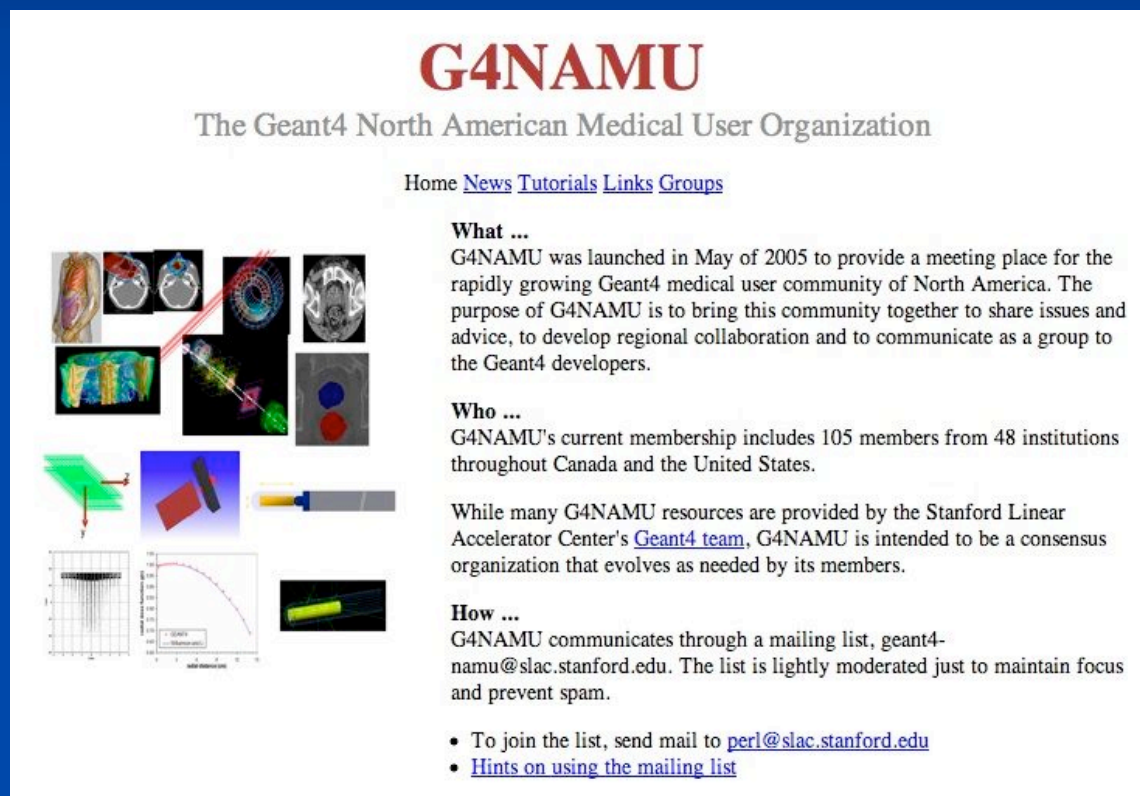
Geant4 North American Medical Users Organization - G4NAMU

Launched in May of 2005 to provide a meeting place for the rapidly growing Geant4 medical user community of North America

- Bring this community together to share issues and advice, to develop regional collaboration and to communicate as a group to the Geant4 developers.

- Current membership includes 105 members from 48 institutions throughout Canada and the United States

- <http://geant4.slac.stanford.edu/g4namu/>



G4NAMU
The Geant4 North American Medical User Organization

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What ...
G4NAMU was launched in May of 2005 to provide a meeting place for the rapidly growing Geant4 medical user community of North America. The purpose of G4NAMU is to bring this community together to share issues and advice, to develop regional collaboration and to communicate as a group to the Geant4 developers.

Who ...
G4NAMU's current membership includes 105 members from 48 institutions throughout Canada and the United States.

While many G4NAMU resources are provided by the Stanford Linear Accelerator Center's [Geant4 team](#), G4NAMU is intended to be a consensus organization that evolves as needed by its members.

How ...
G4NAMU communicates through a mailing list, geant4-namu@slac.stanford.edu. The list is lightly moderated just to maintain focus and prevent spam.

- To join the list, send mail to perl@slac.stanford.edu
- [Hints on using the mailing list](#)

Membership

G4NAMU's current membership includes 105 members from 48 institutions throughout Canada and the United States (and one from Columbia)

Current subscribers to the mailing list (page 1 of 5):

- SLAC: Joseph Perl, Makoto Asai, Jeremy McCormick, Dennis Wright
- Harvard & Mass General: Harald Paganetti, Xing-Qi Lu , Joao Seco, Benjamin Clasio, Cindy Hancox, Basit Athar
- UCSF: Bruce Faddegon, Inder Daftari, Adam Cunha
- ULaval: Luc Beaulieu, Vincent Hubert Tremblay, Hossein Afsharpour, Michel D'Amours
- CHUQ: Luc Gingras
- UPenn: Steven Avery , Dickson Goulart, Jim McDonough
- Stanford: Lei Xing, Paul Keall
- Louisiana State University: Blair Smith, John Chapman
- Fox Chase: Charlie Ma, Jiajin Fan, Jinsheng Li
- (continued on next slide...)

Membership (continued)

Current subscribers to the mailing list (continued):

- McGill: Emily Poon, Frank Verhaegen, Jan Seuntjens, Brigitte Reniers
- Triumpf: Peter Gumplinger, Frederick Jones
- Memorial Sloan-Kettering: C. Ross Schmidlein, Assen Kirov, Sadek Nehmeh, Christopher Danford
- Johns Hopkins: Ben Tsui, Jingyan Xu, Eric Frey, Mikhail Shilov, Yong Du
- University of Arkansas: Xuejun Weng, Yulong Yan
- Jefferson Lab: Paul Gueye, Stan Majewski, David Hamlette, Michael Epps, Marion MacCormic, Nnenna Onumah, Nanda Karthik, Yuriy Prilepskiy
- Advanced Laser Light Source: Jean-Claude Kieffer, Jean-Philippe Moreau
- University of Wisconsin – Madison: Hazim A Jaradat, Jonathan Engle, Miao Zhang
- INRS: François Vidal, Sylvain Fourmaux, Ludovic Lecherbourg, Rémy Toth
- Université de Sherbrooke: Daniel Houde
- (continued on next slide...)

Membership (continued)

Current subscribers to the mailing list (continued):

- University of Alberta: Robert Fedosejev, Craig Unick
- Walter Reed Army Medical Center: Kevin Kramer
- Texas A&M: Yongjun Zhai
- University of Washington: Ruth Schmitz
- University of Minnesota: Lihong Qin
- Xoft Inc.: Steve Axelrod
- Rensselaer Polytechnic: Bryan Bednarz, Valery Taranenko
- Emory University: Ioannis Sechopoulos
- University of Arizona: Don Wilson
- EXELAR Medical Corp & Rush University: Gocha Khelashvili
- University of Florida: Yuxin Feng, Alexei Chvetsov
- (continued on next slide...)

Membership (continued)

Current subscribers to the mailing list (continued):

- Idaho State University: Eddie Tatar
- IN2P3: Sebastien Incerti
- UC Santa Cruz: Hartmut Sadrozinski
- MD Anderson Cancer Center: Xiaoning Ding, Jerimy Polf, James Yang, Steve Peterson, Gabriel Sawakuchi, Louis Archambault
- McMaster University: Victor Kreft
- Mayo Clinic: Oleksandr Dzyubak, Xin Liu
- University of Montreal: Jean-François Carrier, Philippe Després
- Universidad Nacional de Colombia: Luz Stella Veloza Salcedo
- ESA, ESTEC: Petteri Nieminen
- University of Kentucky: Dharmin Desai
- Oklahoma Health Sciences Center: Yong Chen, Salahuddin Ahmad
- (continued on next slide...)

Membership (continued)

Current subscribers to the mailing list (continued):

- University of Virginia: Stanley Benedict
- Agile Engineering: Chad Bircher
- St. Jude Children's Research Hospital: Chris Beltran
- Dartmouth-Hitchcock Medical Center: Christina Skourou
- Loma Linda University Medical Center: Andrew Wroe
- University of Southern California: Hongyu Jiang
- UT Health Science Center at San Antonio: Xudong Wang
- Duke University: Anuj Kapadia

G4NAMU within the World Geant4 Collaboration

- Of course all Geant4 users are part of a world wide community.
 - Medical Applications forum and other user forums are available for discussion and exchange, as well as other Geant4 workshops and meetings.
- But regional efforts also have a role.
 - In Europe, there is now a corresponding organization, G4EMU <http://g4emu.wikispaces.com/>
 - In Japan, many efforts has been organized through Takashi Sasaki of KEK
 - In North America, there is G4NAMU

Geant4 European Medical Users Organization

G4EMU
The [Geant4](#) European Medical User Organization

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G4EMU
The [Geant4](#) European Medical User Organization

A meeting place for the rapidly growing Geant4 medical user community of Europe.

The purpose of G4EMU is to bring Geant4 medical users together to share issues and practical advice, and to develop collaboration in Europe.

- [Aatos Heikkinen on planning the G4EMU launch](#)
 - *[Please add your comments directly to these pages or send your suggestions to [Aatos Heikkinen](#)]*
- [aatos](#) *May 3, 2007 4:26 pm*]
- [Pablo Cirrone on launching G4EMU](#)

Geant4 Links:

- The Geant4 North American Medical User Organization [G4NAMU](#)
- [GATE - Geant4 Application for Emission Tomography](#)
- The "Medical Applications" forum in the Geant4 [HyperNews](#)
- [Google Scholar search 'Geant4 Medical'](#)

Geant4 application for medical physics

HADRONTHERAPY
A Geant4 application for the simulation of hadrontherapy beam line

- <http://g4emu.wikispaces.com>

Geant4 Medical Physics in Japan

- Large concentration of Proton and Ion therapy machines

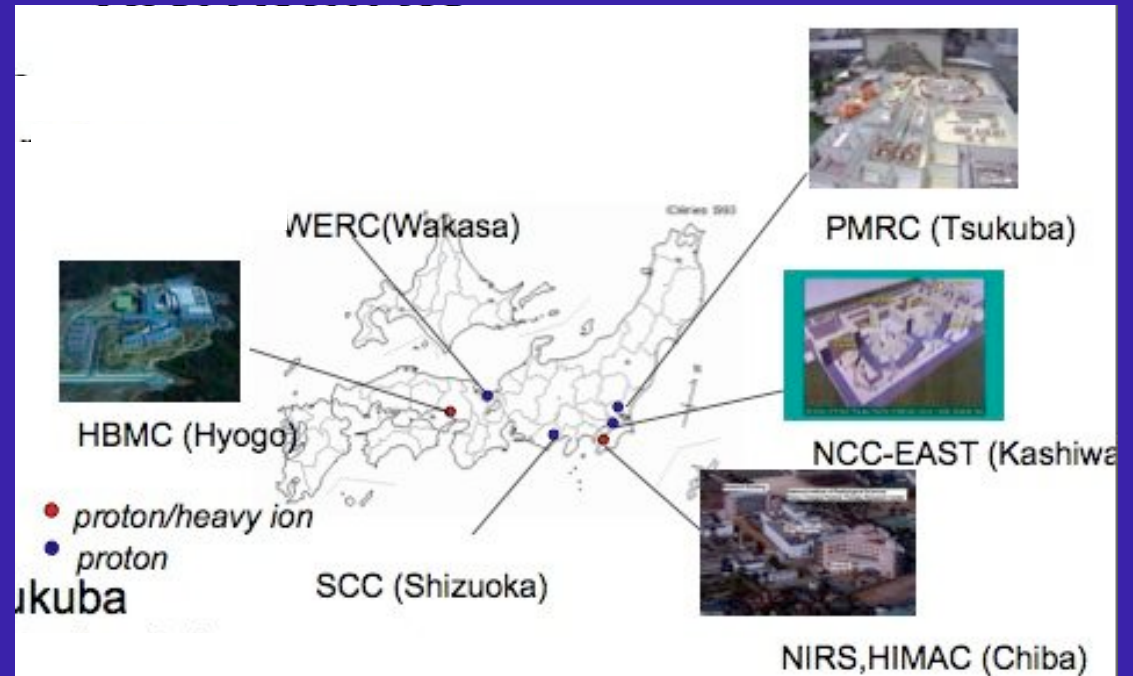
- Major 5 yr Geant4 project led by Takashi Sasaki with Koichi Murakami, Akinori Kimura, Tsukasa Aso and colleagues

– <http://g4med.kek.jp/>

- The Japan-Taiwan Symposium on Simulation in Medicine

– December 12 - 15, 2006, Tsukuba, Japan

– <http://www-conf.kek.jp/geant4/>



G4NAMU as Regional Voice

- G4NAMU can serve as voice of the North American Geant4 Medical User community
 - Organize regional workshops or tutorials
 - Foster nearby collaborations
 - Speak with a collective voice to regional funding agencies
 - Collaborate on validation projects

How Does G4NAMU Work

- We've agreed to use a mailing list.
 - geant4-namu@slac.stanford.edu
 - The list is lightly moderated just to maintain focus and prevent spam.
 - To join the list, send mail to perl@slac.stanford.edu.
- We have periodic meetings and try, as we have today, to take advantage of existing meetings.
 - Provide workshops or tutorials
 - Develop additional Geant4 examples
 - Certify certain parts of the code for use in our communities
 - Collect requirements for Geant4 developers
- G4NAMU is your organization
 - Decide what you want to do with it
 - Feel free to post to the mailing list