Theoretical and Computational Methods Working Group

Suvranu De and Vasilis Marmarelis

Activities in 2012-2013

International Workshop on Computational Mechanics of Materials

- Sept 24-26, 2012, Baltimore, MD
- Organizers: Suvranu De
- Computational Mechanics of Biomaterials

ASME 2013 2nd Global Congress on NanoEngineering for Medicine and Biology

- February 4-6, 2013, Boston, MA
- Track 5: Multiscale Modeling and Experiment in Biology and Medicine
- Organizers: Mark Bathe, Suvranu De, Yusheng Feng, Sinan Ketan, Grace Peng
- One session on IMAG perspectives: Grace Peng, Jennifer Couch, Virginia Pasour, Susan Greurick

MSM Webinar

- June 24, 2013, Speaker: Wonmuk Hwang, Texas A&M
- Topic: Mechanics of kinesin-based transport: from single molecule to multi-motor behavior, to cell division

CMBBE 2013 Conference

April 3-7, 2013, Plenary talk on Virtual Surgery

Springer book project

- Title: Multiscale Modeling in Biomechanics and Mechanobiology
- Co-editors: Suvranu De (RPI), Wonmuk Hwang (TAMU), Ellen Kuhl (Stanford)
- Due date: mid 2014
- Status: on track (20 chapters)

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IDEAS Workshop on Virtual Surgery

- Nov 23, 2013, Beth Israel Deaconess Medical Center, Boston, MA
 Organizers: Dan Jones (BIDMC), Suvranu De (RPI)
 Three groups: Clinicians, Technology, Federal agencies (Grace from
- NIH and Harvee from TATRC)

MSM Webinar

- Nov, 2013, Speaker: Ellen Kuhl, Stanford University
- April, 2014, Speaker: Ausotsh Agarwal, Univ of Houston

SAGES 2014 Annual Meeting

- April 2-5, 2014, Salt Lake City, Utah
- Course : Emerging Frontiers of Virtual Surgery (for CME credits)

Rensselaer Workshop on Multiscale and

Multimodality Imaging and its Applications

Feb, 2014; RPI

Biomedical Simulations Resource Workshop on

"Model-based Diagnostic Physiomarkers"

April, 2014; USC

