**Proposed Schedule for SE-CSE09 Workshop (TENTATIVE)**

8:00-9:20 **Session 1 – Software Development Processes for CS&E**

“How Do Scientists Develop and Use Scientific Software?” by Jo Erskine Hannay ([johannay@simula.no](mailto:johannay@simula.no)), Hans Petter Langtangen ([hpl@simula.no](mailto:hpl@simula.no)), Carolyn MacLeod ([cmacleod@cs.utoronto.ca](mailto:cmacleod@cs.utoronto.ca)), Dietmar Pfahl ([dietmarp@simula.no](mailto:dietmarp@simula.no)), Janice Singer ([janice.singer@nrc-cnrc.gc.ca](mailto:janice.singer@nrc-cnrc.gc.ca)) and Greg Wilson ([gvwilson@cs.utoronto.ca](mailto:gvwilson@cs.utoronto.ca))

“Some challenges facing software engineers developing software for scientists” by Judith A. Segal ([J.A.Segal@open.ac.uk](mailto:J.A.Segal@open.ac.uk))

“Barely Sufficient Software Engineering: 10 Practices to Improve Your CSE Software” by Michael A. Heroux ([maherou@sandia.gov](mailto:maherou@sandia.gov)) and James M. Willenbring ([jmwille@sandia.gov](mailto:jmwille@sandia.gov))

“An Empirical Characterization of Scientific Software Development Projects According to the Boehm and Turner Model: a Progress Report” by Carlton A. Crabtree ([cac1@umbc.edu](mailto:cac1@umbc.edu)), A. Güneş Koru ([gkoru@umbc.edu](mailto:gkoru@umbc.edu)), Carolyn Seaman ([cseaman@umbc.edu](mailto:cseaman@umbc.edu)) and Hakan Erdogmus ([Hakan.Erdogmus@nrc-cnrc.gc.ca](mailto:Hakan.Erdogmus@nrc-cnrc.gc.ca))

9:20-10:40 **Session 2 – Specific Techniques for CS&E Software Development I**

“Refactoring and the Evolution of Fortran” by Jeffrey L. Overbey ([overbey2@illinois.edu](mailto:overbey2@illinois.edu)), Stas Negara ([snegara2@illinois.edu](mailto:snegara2@illinois.edu)) and Ralph E. Johnson ([rjohnson@illinois.edu](mailto:rjohnson@illinois.edu))

“Integration Strategies for Computational Science & Engineering Software” by Roscoe A. Bartlett ([rabartl@sandia.gov](mailto:rabartl@sandia.gov))

“Reusability of FEM Software: A Program Family Approach” by Wen Yu ([yuw4@mcmaster.ca](mailto:yuw4@mcmaster.ca)) and Spencer Smith ([smiths@mcmaster.ca](mailto:smiths@mcmaster.ca))

“Developing Scientific Applications Using Generative Programming” by Ritu Arora ([ritu@cis.uab.edu](mailto:ritu@cis.uab.edu)), Purushotham Bangalore ([puri@cis.uab.edu](mailto:puri@cis.uab.edu)), Marjan Mernik ([mernik@cis.uab.edu](mailto:mernik@cis.uab.edu))

10:40 – 11:10 **Break**

11:10 – 12:30 **Session 3 – Specific Techniques for CS&E Software Development II**

“Testing for Trustworthiness in Scientific Software” by Daniel Hook ([hook@cs.queensu.ca](mailto:hook@cs.queensu.ca)) and Diane Kelly ([dkelly@kingston.net](mailto:dkelly@kingston.net))

“Injecting Software Architectural Constraints into Legacy Scientific Applications” by David Woollard ([woollard@jpl.nasa.gov](mailto:woollard@jpl.nasa.gov)), Chris Mattmann ([mattmann@jpl.nasa.gov](mailto:mattmann@jpl.nasa.gov)) and Nenad Medvidovic ([neno@usc.edu](mailto:neno@usc.edu))

“Comparing Bioinformatics Software Development by Computer Scientists and Biologists: An Exploratory Study” by Parmit K. Chilana ([pchilana@u.washington.edu](mailto:pchilana@u.washington.edu)), Carole L. Palmer ([clpalmer@uiuc.edu](mailto:clpalmer@uiuc.edu)) and Andrew J. Ko ([ajko@u.washington.edu](mailto:ajko@u.washington.edu))

“Preparing Scientists for Scalable Software Development” by Valerie Maxville ([maxville@ivec.org](mailto:maxville@ivec.org))

12:30 – 2:00 **Lunch Break**

2:00 – 2:30 Identify topics for break-out groups

2:30 – 3:30 Break-out group sessions

3:30 – 4:00 **Afternoon Break**

4:00 – 5:00 Report back from Breakout groups

5:00 – 5:30 Wrap-up