TABLE OF CONTENTS

SESSION 1: APPLICATIONS

AMP: A Science-driven Web-based Application for the TeraGrid ........................... 1
Matthew Woitaszek, Travis Metcalfe, Ian Shorrock

Puffin: A Fast and Efficient Web Service-based Condor Job Manager ....................... 8
Jungha Woo, Jalaja Padma, Jae-Woo Lee, David Braun, Carol X. Song

Delivering Real-time Satellite Data to a Broader Audience .................................. 14
Lan Zhao, Shuang Wu, Rakesh Veeramacheni, Carol X. Song, Larry Biehl

SESSION 2: SOCIAL NETWORKING AND GATEWAYS

Social Networking and Scientific Gateways ......................................................... 20
Roger Curry, Cameron Kiddle, Rob Simmonds

Building the PolarGrid Portal Using Web 2.0 and OpenSocial ............................ 30
Zhenhua Guo, Raminderjeet Singh, Marlon Pierce

Web 2.0-based Social Informatics Data Grid ......................................................... 38
Wenjim Wu, Thomas Uram, Michael E. Papka

SESSION 3: TOOLS AND SERVICES

Experience with Adapting a WS-BPEL Runtime for eScience Workflows .................. 45
Thilina Gunaratne, Chathura Herath, Eran Chinthaka, Suresh Marri

TeraGrid's Integrated Information Service ............................................................. 55

SimpleGrid 2.0: A Learning and Development Toolkit for Building Highly Usable TeraGrid Science Gateways ................................................................. 65
Yan Liu, Shaowen Wang, Nancy Wilkins-Diehr

From Campus Resources to Federated International Grids: Bridging the Gap with the Application Hosting Environment ......................................................... 72
Stefan J. Zasada, Peter V. Coveney

SESSION 4: USER INFORMATION PORTALS

Evolving Interfaces to Impacting Technology: The Mobile TeraGrid User Portal ........ 82
Rion Dooley, Stephen Mock, Maytal Dahan, Praveen Nuthalapaty, Patrick Hurley

MyOSG: A User-centric Information Resource for OSG Infrastructure Data Sources .......... 89
Arvind Gopu, Soichi Hayashi, Robert Quick

SESSION 5: SECURITY

Enhancing the Earth System Grid Security Infrastructure Through Single Sign-on and Autoprovisioning ......................................................... 99

Using Dynamic Accounts to Enable Access to Advanced Resources Through Science Gateways ................................................................. 107
Joseph A. Insley, Ti Leggett, Michael E. Papka

Author Index