Table of Contents

Papers

Testing and Integration

Combining Formal Specifications with Test Driven Development .............. 1
  Hubert Baumeister

Long Build Trouble Shooting Guide ............................................. 13
  Jonathan Rasmusson

Acceptance Testing vs. Unit Testing: A Developer’s Perspective .............. 22
  R. Owen Rogers

The Role of Process Measurement in Test-Driven Development ................ 32
  Yihong Wang and Hakan Erdogmus

Acceptance Test Driven Planning (Experience Paper) .......................... 43
  Richard J. Watt and David Leigh-Fellows

Managing Requirements and Usability

An Agile Customer-Centered Method: Rapid Contextual Design ............... 50
  Hugh Beyer, Karen Holtzblatt, and Lisa Baker

Suitability of FIT User Acceptance Tests
  for Specifying Functional Requirements: Developer Perspective .......... 60
  Grigori Melnik, Kris Read, and Frank Maurer

Using Storyotypes to Split Bloated XP Stories .............................. 73
  Gerard Meszaros

Pair Programming

 Distributed Pair Programming: An Empirical Study ......................... 81
  Brian F. Hanks

Support for Distributed Pair Programming in the Transparent Video Facetop . 92
  David Stotts, Jason McC. Smith, and Karl Gyllstrom

Foundations of Agility

Toward a Conceptual Framework of Agile Methods ................................ 105
  Kieran Conboy and Brian Fitzgerald
### Process Adaptations

Security Engineering and eXtreme Programming: An Impossible Marriage?  
*Jaana Wäyrynen, Marine Bodén, and Gustav Boström*  
117

An Agile CMM (Experience Paper)  
*Erik Bos and Christ Vriens*  
129

Adapting Extreme Programming to Research, Development and Production Environments (Experience Paper)  
*Gil Broza*  
139

Outsourcing and Offshoring with Agility: A Case Study (Experience Paper)  
*Clifton Kussmaul, Roger Jack, and Barry Sponsler*  
147

User Story Methodology Adaptations for Projects Non-traditional in Scope and Customer GUI Contributions (Experience Paper)  
*Denise M. Woit*  
155

### Educators’ Symposium

Agile CS1 Labs: eXtreme Programming Practices in an Introductory Programming Course  
*Dawn McKinney, Julie Froeseth, Jason Robertson, Leo F. Denton, and David Ensminger*  
164

A Case Study in the Use of Extreme Programming in an Academic Environment  
*Mary Beth Smrtic and Georges Grinstein*  
175

### Workshop Summaries

Workshops: Research Close to the Action  
*Dave Astels and Grigori Melnik*  
183

Who Should Write Acceptance Tests?  
*Christian Sepulveda, Brian Marick, Rick Mugridge, and David Hussman*  
184

Getting Leaders On-Board  
*Pollyanna Pixton and Mary Poppendieck*  
186

Third International Workshop on Empirical Evaluation of Agile Methods (“The Data Workshop”)  
*Grigori Melnik and Khaled El Emam*  
188

How to Maintain and Promote Healthy Agile Culture  
*David Hussman*  
190

UI Design as Part of an Agile Process  
*Mike Kuniavsky and William Pietri*  
192

Agile Development for Embedded Software  
*James Grenning, Johan Peeters, and Carsten Behring*  
194
Refactoring Our Writings .......................................................... 196  
Joshua Kerievsky

Agile Tests as Documentation .................................................. 198  
Jonathan Kohl and Brian Marick

Fit Fest ................................................................. 200  
Robert C. Martin and Micah Martin

Panels

Agile Project Management ..................................................... 201  
Moderator: Frank Maurer  
Panelists: Mike Cohn, Mike Griffiths, Jim Highsmith, Ken Schwaber,  
and Philippe Kruchten

Agile Methods for Safety-Critical Software Development ............. 202  
Moderator: Kelly Weyrauch  
Panelists: Mary Poppendieck, Ron Morsicato, Nancy Van Schooenderwoert,  
and Bill Pyritz

Is XP Still Relevant? .......................................................... 203  
Moderator: Pete McBreen  
Panelists: Dave Astels, Janet Gregory, Daniel H. Steinberg, Lisa Crispin,  
Jim Highsmith, and Robert C. Martin

Tutorials

Introduction to Tutorials ..................................................... 204  
Brian Button

Agile Requirements: Tailoring the Functional Requirements  
Specification Process to Improve Agility .................................... 205  
Jennitta Andrea and Gerard Meszaros

Advanced Fit Lab .............................................................. 206  
Rick Mugridge

Effective User Stories .......................................................... 208  
Mike Cohn

Outsourcing and Offshoring with Agility .................................... 209  
Clifton Kussmaul

Traditional and Agile Project Management: A Practical Mapping .... 210  
Mike Griffiths

The Agile/XP Team Primer: Exploring Self-organizing Teams ............ 212  
Diana Larsen

Coaching Agile Software Teams .............................................. 213  
William C. Wake and Ron Jeffries
Getting the Software You Need: A Practical Approach for Testers and the Customer Team ...................... 214
Lisa Crispin

First Encounter with Agile Methods ............................................ 215
Frank Maurer and Grigori Melnik

Working Effectively with Legacy Code ....................................... 217
Michael C. Feathers

The Art of Acceptance Testing .................................................... 218
Micah Martin

Agile Planning, Tracking, and Project Management Boot Camp ............. 219
Paul Hodgetts

Tutorial: Agile Project Management – Reliable Innovation ................. 221
Jim Highsmith

XP for a Day ................................................................. 222
James Grenning and Micah Martin

Scripting Web Tests .............................................................. 224
Brett Pettichord, Brian Marick, Paul Rogers, and Jonathan Kohl

Interaction Design Meets Agility:
Practicing Usage Centered Design on Agile Development Projects .......... 226
Jeff Patton

Agile Implementations, Agile Impediments, and Agile Management .......... 227
Ken Schwaber

The Lean Maturity Measure Assessment and Implementation ............... 228
Mary Poppendieck

Agile Databases ........................................................................ 229
Pramod Sadalage

Transitioning to XP .................................................................... 230
Michael Hill

Large Scale Agile Software Development ....................................... 231
Ron Crocker

Refactoring to Patterns .............................................................. 232
Joshua Kerievsky

Author Index ............................................................................. 233