

Table of Contents

Becoming Agile

Rebalancing Your Organization's Agility and Discipline	1
<i>Barry Boehm, Richard Turner</i>	
Extreme Programming: Growing a Team Horizontally	9
<i>Carla Fredrick</i>	
Agile Planning with a Multi-customer, Multi-project, Multi-discipline Team	18
<i>Karl Scotland</i>	
A Tail of Two Projects: How 'Agile' Methods Succeeded after 'Traditional' Methods Had Failed in a Critical System-Development Project	25
<i>Robert Bedoll</i>	

Agile Methods and Processes

The Rules of the Game	35
<i>Ken Auer, Erik Meade, Gareth Reeves</i>	
Achieving ISO 9001 Certification for an XP Company	43
<i>Graham Wright</i>	
The Reflective Practitioner Perspective in eXtreme Programming	51
<i>Orit Hazzan, Jim Tomayko</i>	
Graph Theoretical Indicators and Refactoring	62
<i>J Adrian Zimmer</i>	

Agile Testing

The Test Automation Manifesto	73
<i>Gerard Meszaros, Shaun M. Smith, Jennitta Andrea</i>	
Test-Driven Database Development: A Practical Guide	82
<i>Rong Ou</i>	
A Testing Checklist for Database Programs: Managing Risk in an Agile Environment	91
<i>Rolf Nelson</i>	
JNI Testing	96
<i>Robert Wenner</i>	

Agile Regression Testing Using Record and Playback 111
Gerard Meszaros, Ralph Bohnet, Jennitta Andrea

Make Haste, Not Waste: Automated System Testing 120
*Carl Erickson, Ralph Palmer, David Crosby, Michael Marsiglia,
Micah Alles*

Tool Support for Agile Teams

Virtual Teaming: Experiments and Experiences with Distributed
Pair Programming 129
*David Stotts, Laurie Williams, Nachiappan Nagappan,
Prashant Baheti, Dennis Jen, Anne Jackson*

Issues in Scaling Agile Using an Architecture-Centric Approach:
A Tool-Based Solution 142
Kris Read, Frank Maurer

Developing a Tool Supporting XP Process 151
Sandro Pinna, Paolo Lorrai, Michele Marchesi, Nicola Serra

Educator Symposiums

XP Agile Universe Educators Symposium Overview 161
Donald J. Reifer

Adapting XP to an Academic Environment by Phasing-In Practices 162
James B. Fenwick, Jr.

Introducing Agile Methods in Learning Environments:
Lessons Learned 172
Grigori Melnik, Frank Maurer

Pair Learning: With an Eye Toward Future Success 185
*Nachiappan Nagappan, Laurie Williams, Eric Wiebe, Carol Miller,
Suzanne Balik, Miriam Ferzli, Julie Petlick*

Adaptations for Teaching Software Development with
Extreme Programming: An Experience Report 199
Michael Wainer

Workshops

Workshops at XP/Agile Universe 2003 Introduction 208
Grigori Melnik

Workshop on Agile Development for Embedded Software Development ... 209
James Grenning, Ward Cunningham, Dave Thomas

Workshop on How to Maintain and Promote Healthy Agile Culture	210
<i>David Hussman, Michael Feathers</i>	
2 nd International Workshop on Empirical Evaluation of Agile Methods ("The Data Workshop")	211
<i>Grigori Melnik, Laurie Williams, Adam Geras</i>	
Exploring Programmer Tests	212
<i>J.B. Rainsberger, Ron Jeffries, Rick Mugridge</i>	
XPfest	213
<i>Ward Cunningham, Adam Williams, Brian Marick, Rob Mee, Roy Miller</i>	
Author Index	215