# OOPSLA 2003
# Anaheim, CA, USA, October 26-30

**Workshop**

# Process Engineering for Object-Oriented and Component-Based Development

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## Workshop Organizing Committee (alphabetical order)


- Don Firesmith (SEI, USA)
- Cesar Gonzalez-Perez (University of Technology, Sydney, Australia)
- Brian Henderson-Sellers (University of Technology, Sydney, Australia)
- Pavel Hruby (Microsoft Business Solutions, Denmark)
- Dilip Patel (South Bank University, UK)
- Dan Rawsthorne (Net Objectives, USA)
- Bernhard Rumpe (Munich University of Technology, Germany)
- Magdy Serour (University of Technology, Sydney, Australia)
- Hadar Ziv (eBuilt Inc., USA)


The workshop will be chaired by Dr Dan Rawsthorne. All members of the programme committee will be responsible for undertaking reviews so that each paper receives two timely reviews prior to the selection process.

Dr Cesar Gonzalez-Perez will be in charge of the workshop web site and assist in the organization of the paper selection and publication process.

## Workshop Plan

### Pre-workshop

The keynote address will be:

- CAME: The First Step to Automated Method Engineering
  *Motoshi Saeki*

Accepted papers are the following:

- Practicalities of Implementing Component-Based Development and Model-Driven Architecture

*Jorn Bettin*
- A Reference Model for Process-Oriented Software Development Organizations
  *João M. Fernandes* and *Francisco J. Duarte*
- Process Engineering for Object-Oriented and Component-Based Development (plus slides)
  *Charles Jobson*
- An Overview of the RUP as a Process Engineering Platform
  *Bruce MacIsaac*

Attendees will be expected to have read all the papers before the workshop so that the workshop can focus on more informal yet structured interactions.

### The workshop

Only a small number of papers will be presented orally. The rest will be circulated before the conference and "taken as read". **All** submissions, whether presented or not, will form the architecture for the discussion which will focus on providing concrete, experience-based yet theoretically valid answers to a subset of the questions raised in the workshop topic list.

Following initial presentations of no more than 90 minutes in total, the remainder of the day will be spent in break-out groups, each group focussing on at most two of the selected short list of questions to be answered. A plenary session will end the day from which a workshop report will be produced and made available internationally on this website.

Download the draft programme here.

### Post-workshop

A poster will be prepared for the poster slot at the end of OOPSLA as normal. In addition, the best papers will be recommended to an international journal (possibilities are currently being investigated). Summaries will also be posted on the workshop website. Hopefully, contacts will have been made between academic researchers and industry developers so that the workshop will have catalyzed some valuable research projects.

## Call for Submissions for 2003 (deadline August 22, 2003)

Papers are invited for the OOPSLA 2003 workshop on "Process Engineering for Object-Oriented and Component-Based Development". The workshop aims to share the knowledge and experiences of different organizations in both the theoretical and practical aspects of constructing and tailoring object-oriented and component-based development processes from process components held (probably) in a repository. Process engineering integrates theory, pragmatic guidelines and tool support. Participation will be by submission of a position paper. Selection of these papers for the workshop will be based on review by at least two members of the workshop organizing committee.

## Submissions

Contributions are invited in the form of papers of up to twelve single-sided A4 pages. The workshop proceedings will be reproduced in Springer LNCS format and published by COTAR as a book with ISBN number. The proceedings will be prepared from camera-ready copy supplied in the correct format by the authors of accepted papers. Authors will retain copyright of papers published in the workshop

proceedings. Papers must be submitted as either postscript or PDF files (with any non-standard fonts embedded in the file) and sent as an email attachment to:

Cesar Gonzalez-Perez [cesargon@it.uts.edu.au]

by **August 22, 2003** at the latest. At least one author of each accepted paper is required to register for the workshop and will be expected to attend. Selected papers will be recommended to appropriate editors for journal publication.

# Dates

Papers to be submitted by Friday August 22, 2003
Notification of acceptance by Friday September 12, 2003
Camera-ready manuscripts due by Friday September 26, 2003
Workshop – Sunday October 26 (provisional), 8.30 a.m. - 5.00 p.m.

# Motivation

During the last decade, Object-Oriented/Component Based Development (OO/CBD) has gained a wide acceptance from both academics and practitioners as the current optimal technology for software development. This has led to the creation of a plethora of OO methodologies and, more recently, OO processes. Many of these attempts were to provide a "one size fits all" process. An alternative that we explore in this workshop is to construct a process specifically for the organization by use of the technique of process engineering. In this approach an overall development process is composed from a portfolio of existing process components. While the creation of process components is reasonably mature, the guidelines to help organizations construct their own process from these process components is little understood.

# Workshop Goal

The overall goal of the workshop is to create concrete advice to organizations on process construction and process tailoring. This will require interchange of ideas and experiences between researchers and practitioners.

# Themes

Papers are invited on both theoretical and practical aspects relevant to process engineering. Topics include (but are not restricted to):

- Theories of process engineering
- Heuristic guidelines for process engineering
- Tools to support process engineering
- Process engineering (construction and tailoring) in the OO/CBD context
- Agile methods and process families
- Case studies of the application of process engineering
- Process patterns
- Process modelling
- Lightweight versus heavyweight processes

- Specific instances of process components e.g. for agile methods, web methods, etc.
- Human aspects of development processes e.g. People-CMM
- Metrics for the quality of the constructed process

# Organizers' Backgrounds

**Don Firesmith** is President of Firesmith Consulting, which provides an 800+ page informational website on the OPEN Process Framework as well as high-level consulting and training in project management, process engineering, requirements engineering, architecting, design, and testing. He recently joined the Software Engineering Institute (SEI). Don has 25 years of industry experience including 19 years in object technology. He is the author of 5 books on object technology and is currently writing a book on requirements engineering.

**Cesar Gonzalez-Perez** is a Post-doctoral Research Fellow at the Centre for Object Technology Applications and Research at University of Technology, Sydney (UTS), and has been developing and applying OO methodologies for over nine years to both research and commercial projects. He is the lead author of the OPEN/Metis methodology.

**Brian Henderson-Sellers** is Director of the Centre for Object Technology Applications and Research and Professor of Information Systems at University of Technology, Sydney (UTS). He is author of ten books on object technology and is well known for his work in OO methodologies (MOSES, COMMA and OPEN) and in OO metrics. He was recently awarded a DSc degree by the University of London for his work in object-oriented methodology.

**Pavel Hruby** works at Microsoft Business Solutions, Copenhagen, Denmark . He focuses on development processes and software solutions that are easy to use and customize, even when solving complex problems. He is interested in utilizing patterns of software development as the primary abstractions in engineering of object-oriented development processes. He has written many papers in the area of software development processes, co-organized a workshop on Automating Object-Oriented Software Development Methods at ECOOP 2001 and was a chair of VikingPLoP 2002, the First Nordic Conference on Pattern Languages of Programs.

**Dilip Patel** is currently a Professor of Information Systems and Head of the Centre for Information and Organisation Studies within the School of Computing, Information Systems and Mathematics at South Bank University . Under his leadership the Centre undertakes research in the areas of databases, business objects, software measurements and software engineering process models. He has published widely in journals in these areas. His more recent publications include editing a special issue of the Annals of Software Engineering. He is a founder member of the successful series of international conferences on Object Oriented Information Systems (OOIS).

**Dan Rawsthorne** is a Senior Consultant at Net Objectives, providing both training and consulting services to the software development community. He is a 20-year veteran of the software wars and an accomplished manager, mentor, coach, consultant, and architect. Dan has been involved with many software projects (from e-commerce to military avionics), has written a number of articles, served as a columnist, and has taught University courses on OO modeling and methods. He is one of five people certified by Alistair Cockburn to teach Writing Effective Use Cases. Dan has a PhD in mathematics from the University of Illinois.

**Bernhard Rumpe** has contributed in various publications to UML standardization as well as to the development and enhancement of software engineering processes. He has worked for many years in

projects in cooperation with the industry including Siemens, SAP, ESG, and BMW. Bernhard is author/editor of eight books, among them the UML'99 proceedings and the UML adaptation for Frameworks (UML-F) and editor of a number of workshop proceedings of ECOOP and OOPSLA workshops. He is Co-Editor-in-Chief of the Springer International Journal on Software and Systems Modeling (www.sosym.org).

**Magdy Serour** is the co-founder of SB the Software Group Pty Ltd (1982). SB is a software house that markets its vertical market packages. It specialises in delivering turnkey systems to small and medium size business. Magdy has had 25 years experience in Information Technology, being significantly involved in requirement engineering, system analysis and design, implementation, user training and customer support. Magdy has a bachelor of accounting (Cairo Uni), G. Dip in computing (ICL, Lon), Dip in computing (Control Data, Sydney), Master of Computing (UWS, Sydney). In March 2003, he submitted his PhD thesis at UTS. He is currently a post-doctoral research fellow in the Faculty of Information Technology at UTS working with Professor Brian Henderson-Sellers in the area of software development assessment (OOSPICE) and process modelling with the OPEN Process Framework.

**Hadar Ziv** is a Principal Software Engineer with eBuilt, Inc., in Irvine, California. He holds a PhD in Information and Computer Science from the University of California, Irvine, where he continues to teach at the Undergraduate, Graduate, and Extension programs. Dr. Ziv has published several articles in areas of software process, UML and use-case modeling, and architecture and design. He has provided training, mentoring and consulting to companies such as AT&T, Beckman Coulter, Experian, Logicon, Cendant, Overture, MCA Universal, PacifiCare, and the Capital Group Companies. Prior to joining eBuilt, Dr. Ziv worked at Quest Software as Development Manager and at Salient Corporation as Training Director, where he was a Rational-certified trainer in OOAD/UML and Rational Rose.

# Workshop Programme Committee (alphabetical order)

- Sjaak Brinkkemper (Triffit/Vrije Universiteit, The Netherlands)
- Don Firesmith (SEI, USA)
- Cesar Gonzalez-Perez (University of Technology, Sydney, Australia)
- Brian Henderson-Sellers (University of Technology, Sydney, Australia)
- Scott Henniger (University of Nebraska - Lincoln, USA)
- Pavel Hruby (Microsoft Business Solutions, Denmark)
- Graham McLeod (University of Cape Town, South Africa)
- Dilip Patel (South Bank University, UK)
- Jolita Ralyte (University of Geneva, Switzerland)
- Dan Rawsthorne (Net Objectives, USA)
- Collette Rolland (Universite Paris-Sorbonne, France)
- Bernhard Rumpe (Munich University of Technology, Germany)
- Motoshi Saeki (Tokyo Institute of Technology, Japan)
- Magdy Serour (University of Technology, Sydney, Australia)
- Bhuvan Unhelkar (University of Western Sydney, Australia)
- Houman Younessi (Rensselaer Polytechnic University, USA)
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