

Practical Software and Systems Measurement

Practical Software and Systems Measurement

A foundation for objective project management



**PSM Users' Group
Conference
Vail, Colorado**

July 24-28, 2006

PSM 1

25 Jul 06

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Performance and Decision Analysis

PSM 2

25 Jul 06

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2006 PSM Users' Group Conference

**Sponsored by the PSM Support Center
and the International Council on
Systems Engineering**



PSM 3

25 Jul 06

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Conference Welcome and Introductions

PSM 4

25 Jul 06

Objectives

- **Conference Participants**
 - *User perspectives - share lessons learned*
 - *Discuss guidance for new areas*
 - *Information on related initiatives*
- **PSM Project Expectations**
 - *Technical Inputs in development of new guidance*
 - *Interaction with users - experiences using PSM*

Logistics

- **Registration/Logistics in the lobby – see Jeannie**
- **If you need to be reached during the meetings, 1-800-950-8245**
- **Turn in evaluation forms and survey before leaving (drawing for prize)**
- **Internet available in lobby and conference facilities - get code from front desk on a daily basis**

Conference Meals

- **Breakfast Daily**
 - *Chatillion A – Mon, Tues, Wed, Fri*
 - *Lord Gore Restaurant – Thur*
- **Lunch**
 - *Tuesday – Chatillion A (provided)*
 - *Thursday – Lord Gore restaurant (provided)*
 - *Monday – Wednesday – Friday – on your own*
- **Dinner – Wednesday, 26 July**
 - *Barbeque at Lord Gore deck at upper pool*
 - *7:00pm – Cash Bar*
 - *7:30pm – Dinner*
 - *Spouses welcome (see Jeannie for cost info)*

Logistics (cont.)

- **PSM Polo Shirts are available at the registration table**
 - *Extra 2006 shirts on sale for \$30.00*
 - *PSM Polo Shirts from previous years, are on sale for \$20.00, while they last*
- **After Meeting**
 - *Presentations and Workshop Materials Available from PSM Web Site*
(www.psmc.com)

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Agenda

- **Tuesday**
 - ***Presentations, 0830 - 1700***
- **Wednesday**
 - ***Presentations, 0830 - 1300***
 - ***Workshops, 1415 - 1730***
- **Thursday**
 - ***Workshops, 0830 - 1200***
 - ***Workshops, 1300 - 1715***
- **Friday**
 - ***Presentations, 0830 - 0950***
 - ***Workshop Outbriefs, 1015 - 1200***

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Workshops

- ***COSYSMO: Current Experiences and Beyond***
- ***Metrics Program Start-Up and Maintenance***
- ***SE Technical Measures***
- ***How to Enhance the PSM Measurement Specifications / Experience Report Libraries***
- ***Security Measurement***
- ***Performance Measurement and Benchmarking***
- ***Constructive Network Infrastructure Protection Cost Model (CONIPMO)***
- ***Acquisition Measurement***
- ***SE Leading Indicators***
- ***Defects/Anomalies Estimation and Management***

Accomplishments This Year

- **New Technology Papers Completed**
 - **Measurement of Safety and Security**
 - **PSM/UK/Australia collaboration**
 - **Security Measurement, Version 3 released January 2006**
 - **Safety measurement, Version 3, released January 2006**
 - **Systems Engineering Technical Measures**
 - **PSM/INCOSE/Industry collaboration**
 - **Released December 2005**

Accomplishments This Year (cont)

- **New Technology Papers Completed (cont.)**
 - **Process Improvement Measurement**
 - **Released September 2005**
 - **Rational Method Composer (RMC), version 2, released January 2006**
 - **Work in Progress**
 - **Acquisition Measurement (draft)**
 - **Draft 0.5 released March 2005**
 - **Includes Guidance, ICM Table, Acquisition WBS, and Acquisition Cost Model**

2006 Activities - Get Involved

- *Participate in workshops – provide inputs and recommendations*
- *Review products as available*
- *Additional examples to support guidance - Measurement Specifications*
- *Experience Reports*
- *Case Studies and Papers*

2006 Activities - PSM Insight

- *Plans are underway to update PSM Insight*
- *Focus will be on:*
 - *Enterprise orientation*
 - *Server data entry*
 - *Output results to intranet/internet*
 - *Security*
 - *TSP/PSP measure templates*
- *We are looking for additional partners for this activity – if you are interested, talk to Cheryl Jones*

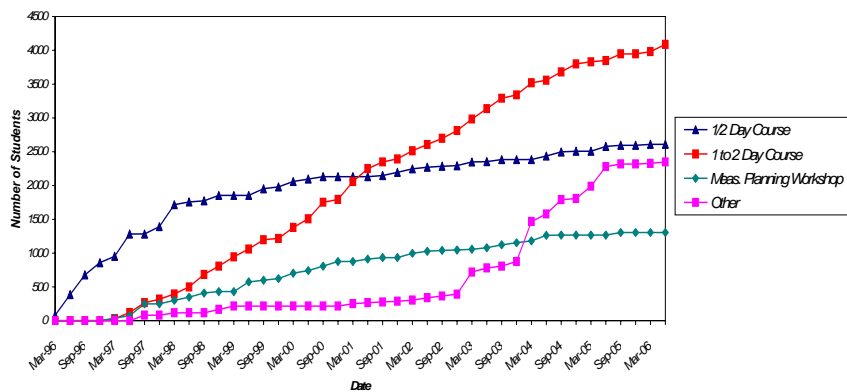
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2006 Schedule - Public Courses

- **PSM Training**
 - Fall 2006 - VA area
- **PSM Insight Training**
 - Fall 2006 - VA area
- **PSM Train-the-Trainer Course**
 - Fall 2006 - New Jersey
- **Technical Working Group Meetings**
 - PSM TWG - Feb/Mar 2007, Herndon, VA
 - Users' Group Meeting - July 2007, Colorado

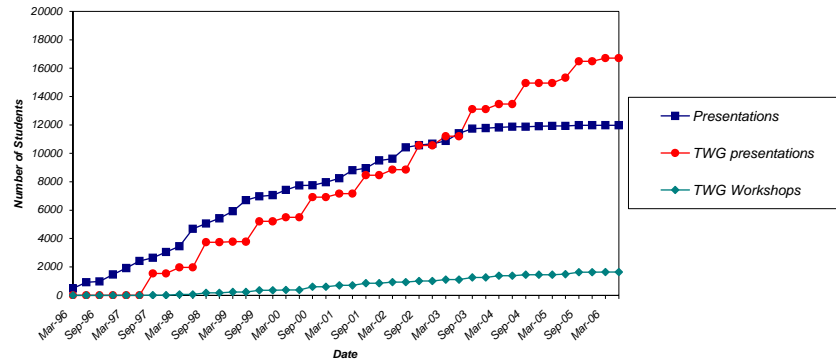
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PSM Transition Activity
(Cumulative as of June 2006)



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PSM Performance Management
(Cumulative as of June 2006)

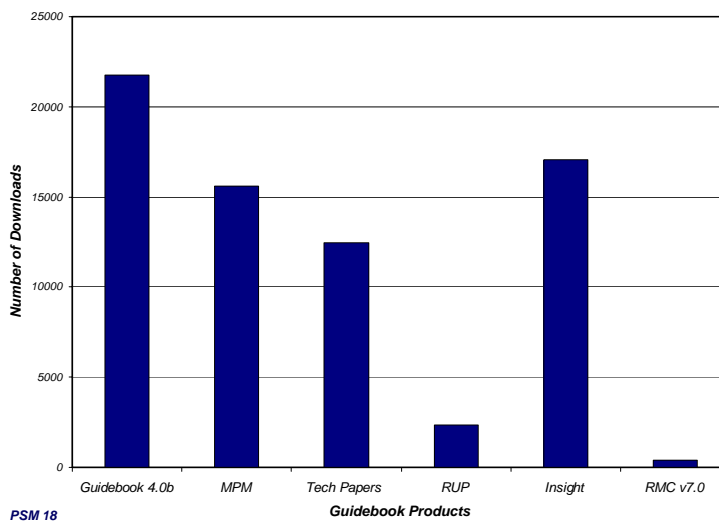


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PSM Web Downloads
Data as of June 2006

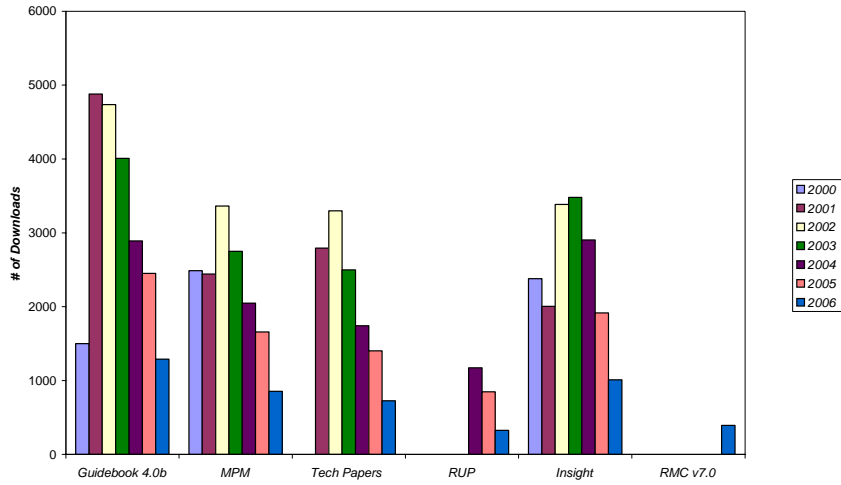


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**Web Downloads
As of June 2006**

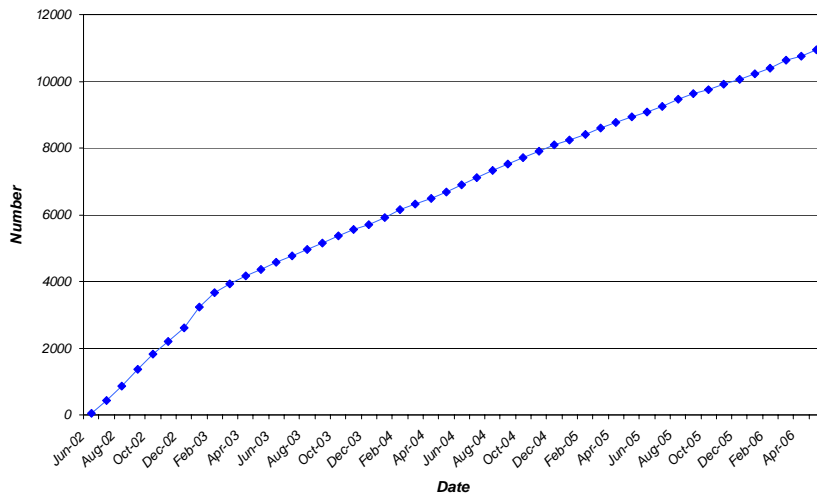


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**Number of New Members by Month
(Cumulative) through June 2006**



PSM 20

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PSM Participating Organizations

DoD and Government

- US Air Force AFMC
- US Air Force SSSG
- US Air Force STRATCOM
- US Air Force STSC
- US Army CECOM
- US Army CERDEC & Engineering Ctr.
- US Army Material Command
- US Army RDECOM-ARDEC
- US Army SAALT
- US Army SMDC
- USMC MCTSSA
- US Navy AEDC
- US Navy ASN RDA
- US Navy FMSO
- US Navy NAVAIR
- US Navy NAVSEA
- US Navy NAWC
- US Navy NRL
- US Navy NSWC
- US Navy NUWC
- US Navy OPTEVFOR
- OSD NII
- OSD PA&E
- ODUSD (S&T)
- Aerospace Corp.
- Central Intelligence Agency
- Dept of Homeland Security, Customs & Border Protection
- DAU-DSMC
- DCMA
- DFAS
- DISA
- DLA
- FAA
- IDA
- MITRE Corp.
- NASA
- Sandia National Lab
- Soc. Sec. Admin.
- Software Engineering Institute

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PSM Participating Organizations

Industry

- ACS GSG
- Accenture, Quality and Process Improvement
- Alion Science and Technology
- American Sys. Corp.
- Ameritrade Corporation
- Apptis
- Argon Engineering Assoc.
- Assurance Engineering
- BAE Systems
- Bank of America
- Bloodworth Int. Tech.
- Boeing
- Booz Allen Hamilton
- Borland TeraQuest
- Carnegie Mellon Univ.
- Center for Systems Management
- CMIS
- Computer Sciences Corp.
- Computer Technology Associates
- Countrywide
- David Consulting Group
- Distributive Software
- Federal Reserve Bank
- First Line Partners
- Fraunhofer Ctr. For Experimental Software Engineering
- GTE
- Galorath, Inc.
- General Dynamics
- General Scientific Corporation
- Graeme & Garland
- Hawaiian Electric
- IBM
- IEEE
- IFPUG
- IITRI
- INCOSE
- ITABHI
- Independent Engineering, Inc.
- Jacobs Sverdrup
- James Gregory Assoc.
- Kodak Health Imaging
- L3 Communications
- Lexmark International
- Lockheed Martin
- Measurement-By-Management

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PSM Participating Organizations

Industry (continued)

- Nat. Renewable Energy Lab.
- Northrop Grumman
- OAO Corporation
- Paraswift, Inc.
- Pragma Systems Corporation
- PRICE Systems, LLC
- Q-Labs
- QSM
- Quality Plus Tech.
- Raytheon
- Reifer Consultants
- Robbins Gioia, LLC
- Rockwell Collins
- SAIC
- Sallie Mae
- Sentel
- Softstar Systems
- Software Engineering Assoc., Inc.
- Software Management Solutions
- Software Metrics, Inc.
- Systems and Software Consortium, Inc
- Technomics
- Tecolote Research. Inc.
- TeraQuest Metrics
- Texas Guaranteed Student Loan Corporation
- Titan Corporation
- Tivoli
- Tybrin Corporation
- United Defense
- Univ. Southern CA
- Upsart Systems, LLC
- User Trust Network
- US West
- VisiTcch, Ltd.
- VPI - State University
- West Virginia High Tech. Consortium
- West Virginia University
- Whittaker Group
- Wind River Systems
- Xcel Energy

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PSM Participating Organizations

International

- ADI Limited (Australia)
- Amdocs (Israel)
- Australian Defence Force Academy (Australia)
- Australia SoC Technology Centre (Australia)
- BAE Systems (Australia)
- Centro de Investigacion en Matematicas (Mexico)
- Defence Materiel Org.-Australian DoD (Australia)
- Defense Science and Technology Labs (UK)
- Ericsson Espana SA (Spain)
- General Dynamics (Canada)
- Gov't of Israel, Ministry of Defense
- Jacobs Sverdrup Technology (Australia)
- Kozo Keikaku Engineering, Inc. (Japan)
- Liveware I.S.S.A. (Argentina)
- MEADS International (U.S, Germany, Italy)
- MS SPI Solutions (Mexico)
- NRC (Canada)
- S-3 Consulting Pty. Ltd (Australia)
- Saab Systems Pty. Ltd. (Australia)
- Software Improvements Pty. Ltd. (Australia)
- Software Quality Institute (Australia)
- Tangram Hi-Tech Solutions (Israel)
- Tenix ESD (Australia)
- ti Metrics (Brazil)
- UK Ministry of Defense (UK)
- University of York/ YorkMetrics Ltd. (UK)

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Transition Organizations

DoD and Government

- *US Army RDECOM – ARDEC (PSM Support Center)*
- *US Air Force Software Technology Support Center*
- *US Navy NAVAIR*
- *Naval Undersea Warfare Center*
- *Aerospace Corporation*
- *Defense Acquisition University - Defense Systems Management College*
- *Defense Contract Management Agency*
- *Federal Aviation Administration*
- *MITRE Corporation*
- *Software Engineering Institute*

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Transition Organizations

Industry

- *Argon Engineering Associates*
- *Borland TeraQuest*
- *Center for Systems Management*
- *Computer Sciences Corporation*
- *David Consulting Group*
- *Distributive Software*
- *INCOSE*
- *Lockheed Martin*
- *Northrop Grumman*
- *Paraswift, Inc.*
- *Quality Plus Technologies, Inc.*
- *Q-Labs*
- *Robbins-Gioia, LLC*
- *Software Metrics, Inc.*
- *Systems and Software Consortium, Inc (SSCI)*
- *Texas Guaranteed Student Loan Center*
- *Titan Corporation*

Transition Organizations

International

- **ADI Limited (Australia)**
- **Australian Defence Force Academy (Australia)**
- **BAE Systems (Australia)**
- **Centro de Investigacion en Matematicas (Mexico)**
- **Defence Materiel Organisation - Australian DoD (Australia)**
- **Jacobs Sverdrup Technology (Australia)**
- **Kozo Keikaku Engineering, Inc. (Japan)**
- **Liveware I.S.S.A (Argentina)**
- **MS SPI Solutions (Mexico)**
- **S-3 Consulting Pty. Ltd. (Australia)**
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