

Practical Software and Systems Measurement

Practical Software and Systems Measurement

A foundation for objective project management



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

July 18-22, 2005

PSM 1

19 Jul 05

Practical Software and Systems Measurement

Measurement in Support of System and Process Integrity

PSM 2

19 Jul 05

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2005 PSM Users' Group Conference

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



PSM 3

19 Jul 05

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Conference Welcome and Introductions

PSM 4

19 Jul 05

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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*

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Logistics

- **Registration/Logistics at the Conference Center – see Jeannie**
- **If you need to be reached during the meetings, 970-496-4142**
- **Turn in evaluation forms and survey before leaving (drawing for prize)**
- **Meals**
 - *Breakfast daily*
 - *Lunch provided - Tuesday / Thursday*
 - *Dinner - Wednesday at Snake River Saloon*

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Conference Dinner

- **Wednesday, 20 July**
 - 7:00pm **Cash Bar**
 - 8:00pm **Dinner**
 - **Snake River Saloon**
 - **½ Block East of the Keystone Inn (same side of road)**
 - **Please select your entrée (yellow sheet in your conference packet) and return to the registration desk by the end of lunch Tuesday**
 - **Spouses welcome (see Jeannie for cost info)**

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Logistics (cont.)

- **PSM Polo Shirts are available at the registration table**
 - **Extra 2005 shirts on sale for \$35.00**
 - **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, 1020 - 1130*

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Workshops

- **COSYSMO**
- **COSOSIMO**
- **SE Technical Measures**
- **Measurement Specification Lite**
- **Implementing and Sustaining Commitment**
- **Recommended Measures for ROI Activities**
- **Acquisition Measurement**
- **Organizational and Enterprise Measurement**
- **Security Measurement**
- **IEEE Standard 1044**
- **Information Needs for High-Maturity Measurement Survey**

Accomplishments This Year

- **New Technology Papers in Development**
 - **Acquisition Measurement (draft)**
 - *Draft 0.5 released March 2005*
 - *Includes Guidance, ICM Table, Acquisition WBS, and Acquisition Cost Model*
 - **Measurement of Safety and Security (draft)**
 - *PSM/UK/Australia collaboration*
 - *Security Measurement, Version 2 released July 2005*
 - *Safety measurement, Version 2, scheduled for Fall 2005*
 - **Systems Engineering Technical Measures**
 - *PSM/INCOSE/Industry collaboration*
 - *Draft 2 released March 2005*
 - *Draft 3 scheduled for October 2005*

Accomplishments This Year (cont)

- **New Technology Papers in Development (cont.)**
 - **Process Improvement Measurement**
 - *Draft 0.7 released March 2005*
 - *Final scheduled for late Summer 2005*
- **Contributed to COSYSMO Model**

2005 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*

2005 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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2005/2006 Schedule - Public Courses

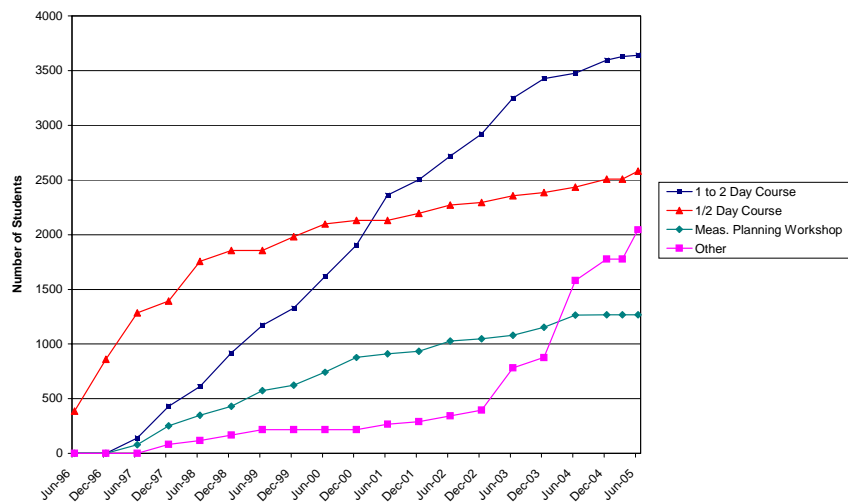
- **PSM Training**
 - Fall 2005 - VA area
- **PSM Insight Training**
 - Fall 2005 - VA area
- **PSM Train-the-Trainer Course**
 - Fall 2005 - New Jersey
- **Technical Working Group Meetings**
 - PSM TWG - Feb/Mar 2006, Herndon, VA
 - Users' Group Meeting - July 2006, Colorado

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PSM Performance Management June 2005

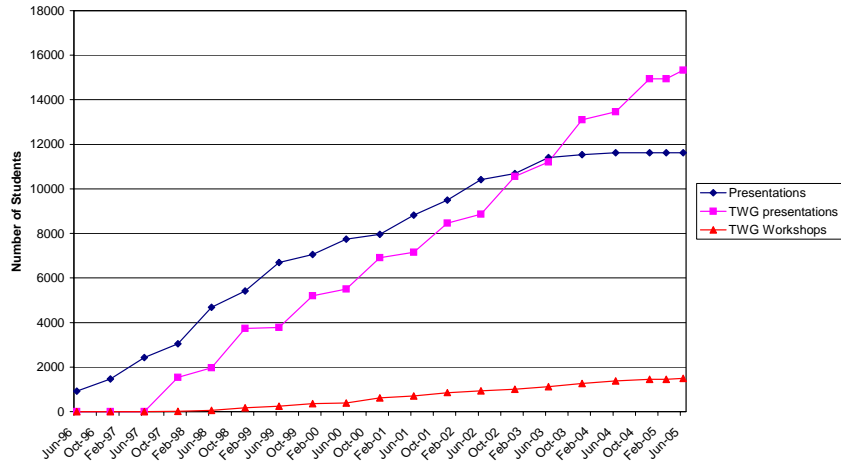


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PSM Performance Management June 2005

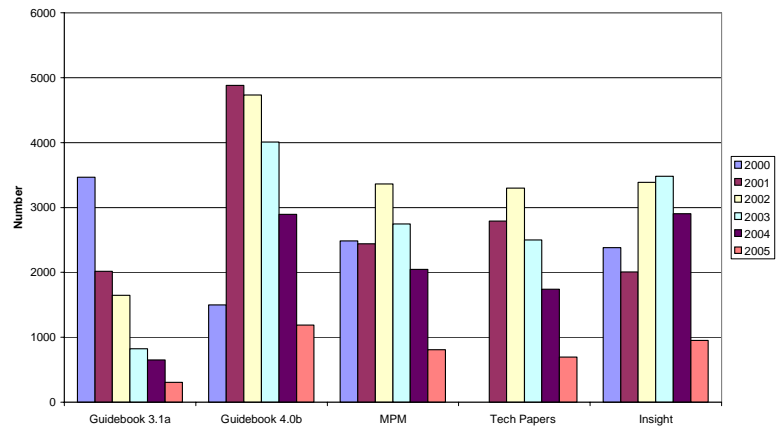


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PSM Download Stats June 2005



PSM 18

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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 AMC
- US Army CECOM
- US Army RDECOM-ARDEC
- US Army SAALT
- US Army SMDC
- USMC MCTSSA
- US Navy AEDC
- US Navy ASN RDA
- US Navy FMISO
- 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 PI
- Alion Science and Technology
- American Sys. Corp.
- Ameritrade Corporation
- Argon Engineering Associates
- Assurance Engineering
- BAE Systems
- Bloodworth Int. Tech.
- Boeing
- Booz Allen Hamilton
- Borland TeraQuest
- CMIS
- Computer Technology Associates
- Carnegie Mellon Univ.
- Computer Sciences Corp.
- Center for Systems Management
- 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
- Nat. Renewable Energy Lab.
- Northrop Grumman
- OAO Corporation
- Pragma Systems Corporation
- PRICE Systems, LLC
- Q-Labs
- QSM
- Quality Plus Tech.
- Raytheon - Hughes
- Reifer Consultants
- Robbins Gioia, LLC
- Rockwell Collins
- SAIC
- Sallie Mae
- Sentel
- SETA
- Software Engineering Assoc., Inc.
- Software Management Solutions
- Software Metrics, Inc.
- Systems and Software Consortium, Inc (SSCI)
- Tecolote Research, Inc.
- Texas Guaranteed Student Loan Corporation
- Titan Corporation
- Tivoli
- United Defense
- Univ. Southern CA
- Upsart Systems, LLC
- User Trust Network
- US West
- VisiTch, 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)*
- *Jacobs Sverdrup Technology (Australia)*
- *Kozo Keikaku Engineering, Inc. (Japan)*
- *Liveware I.S.S.A. (Argentina)*
- *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/ York Metrics 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 Contract Management Agency*
- *Defense Acquisition University - Defense Systems Management College*
- *Federal Aviation Administration*
- *MITRE Corporation*
- *Software Engineering Institute*

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
- 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)
- S-3 Consulting Pty. Ltd. (Australia)
- Saab Systems Pty. Ltd (Australia)
- Software Improvements Pty Ltd. (Australia)
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- ti Metricas (Brazil)
- University of York/York Metrics Ltd (UK)