

Practical Software and Systems Measurement

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A foundation for objective project management



*PSM Users' Group Meeting
Keystone, Colorado*

July 14-18, 2003

***Making Measurement Work
throughout the Enterprise***

Practical Software and Systems Measurement

2003 PSM Users' Group Conference

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

***in cooperation with ASQ Software
Division***



***Conference Welcome
and Introductions***

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

- ***Meals***
 - ***Breakfast Daily***
 - ***Lunch Provided - Tues/Thur***
 - ***Dinner - Wed***
 - ***Kickapoo Tavern***
- ***Registration/Logistics***
 - ***Conference Center***

Dinner - Kickapoo Tavern

- ***Wednesday, 16 July***
- ***Cash Bar starts at 7:00pm, Dinner at 8:00***
- ***Kickapoo Tavern, River Run Village***
- ***If you are staying in Keystone, you will receive a voice mail with directions - If not please stop by the PSM registration desk for directions***
- ***Guests are allowed to attend for 35.00/each please stop by the registration desk***
- ***Casual***

Agenda

- ***Tuesday***
 - *Presentations, 0830 - 1645*
- ***Wednesday***
 - *Presentations, 0830 - 1200*
 - *Workshops, 1330 - 1700*
- ***Thursday***
 - *Workshops, 0830 - 1200*
 - *Workshops, 1300 - 1630*
- ***Friday***
 - *Presentations, 0830 - 1000*
 - *Workshop Outbriefs, 1000 - 1200*

Agenda

- ***After Meeting***
 - ***Presentations and Workshop Materials Available from PSM Web Site (www.psmisc.com)***
 - ***CD Will Be Mailed to Each Participant***

Workshops

- *COSYSMO Working Group*
- *Software Product Quality Modeling*
- *Software Acquisition PI Program*
- *TAI Architecture*
- *System of System Measurement*
- *Measurement Specifications*
- *CMMI Measurement and Analysis Interpretation Guidance*
- *Acquisition Measurement*
- *Safety and Security Measurement*

Accomplishments This Year

- ***Training Materials v5.0d Developed (book)***
- ***DoD Implementation Guidance***
- ***Sample Measurement Specifications Developed (template, 11 drafted)***
- ***Experience Reports (template, 5 completed)***
- ***New Technology Paper***
 - ***Applying PSM to Enterprise Measurement***
- ***Web Site Development***
- ***PSM 4.0 Finalized and Posted to Web***

Accomplishments This Year (cont.)

- ***PSM Insight Releases - v4.2.1***
 - ***Pack without data (templates)***
 - ***Measurement plan template***
 - ***Attribute by attribute indicators***
 - ***Rolling Periods***
 - ***Emailing attachments***

FY03 Activities - Get Involved

- ***Complete Survey***
- ***Technology Papers (Review Team)***
 - ***Systems engineering technical measures***
 - ***Measurement of safety and security processes (PSM/UK/Australia collaboration)***
 - ***Acquisition measurement (including 804 performance measurement requirements)***
 - ***Measurement in the Rational Unified Process (PSM/Rational collaboration)***
 - ***Measurement of system of systems (PSM/DAU collaboration)***
- ***Develop Experience Report***

FY03 Activities (cont.)

- ***Develop Additional Examples to Support Guidance - Measurement Specifications***
- ***Review ISO Product Quality Measurement and Evaluation standards (ISO 25000 - SQuaRE)***

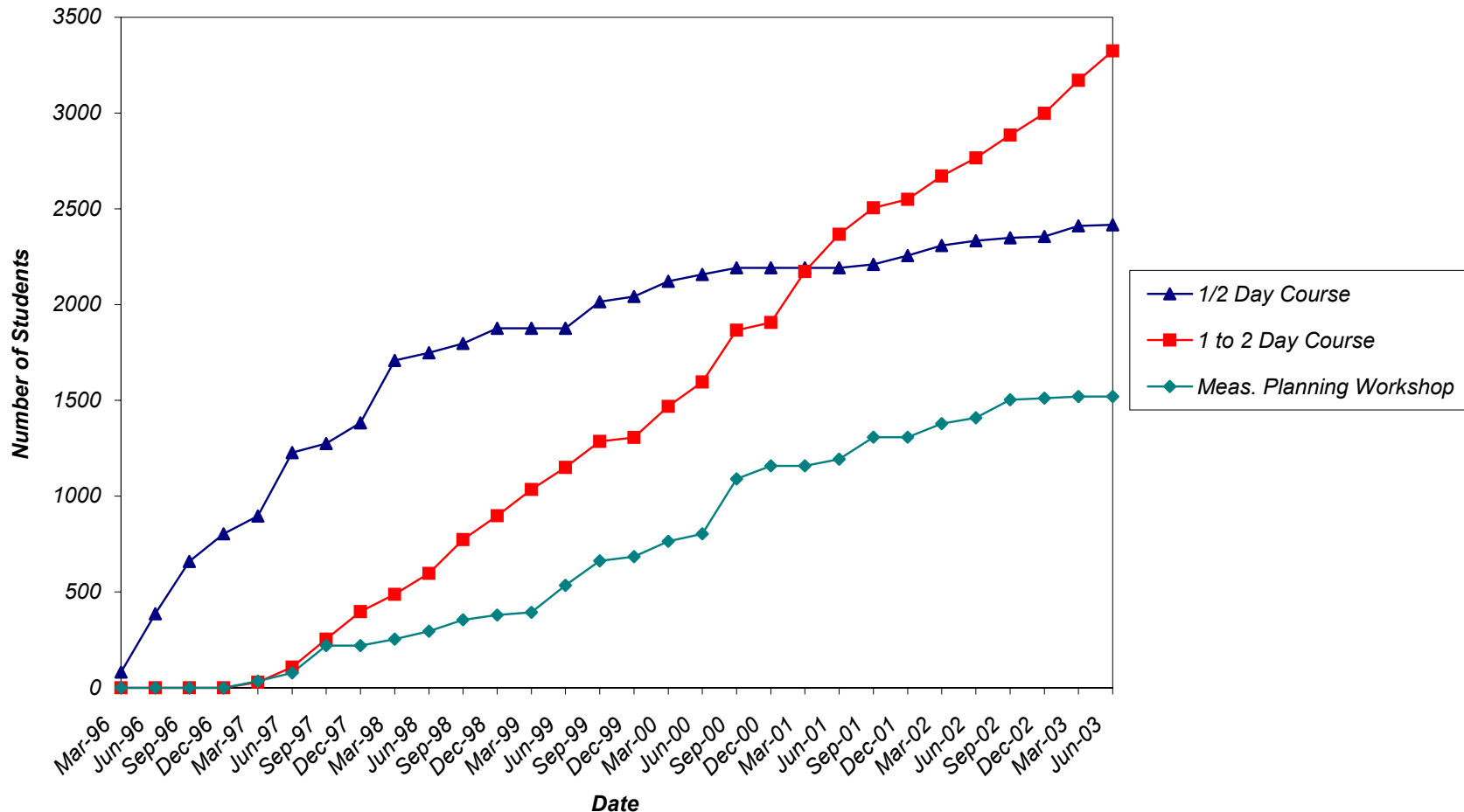
- ***Measurement with Risk and Performance Management***
- ***PSM Insight Releases***
 - ***Organizational database capabilities***
 - ***Updated terminology***
 - ***Enhanced database***
- ***Case Studies and Papers***

FY03 Schedule - Public Courses

- ***PSM Training***
 - ***8-9 September 2003 - VA area***
- ***PSM Insight Training***
 - ***10-12 September 2003 - VA area***
- ***PSM Train-the-Trainer Course***
 - ***10-12 September - Los Angeles, CA***
- ***Technical Working Group Meetings***
 - ***PSM TWG - Feb/Mar 2004, Herndon, VA***
 - ***Users' Group Meeting - July 2004, Colorado***

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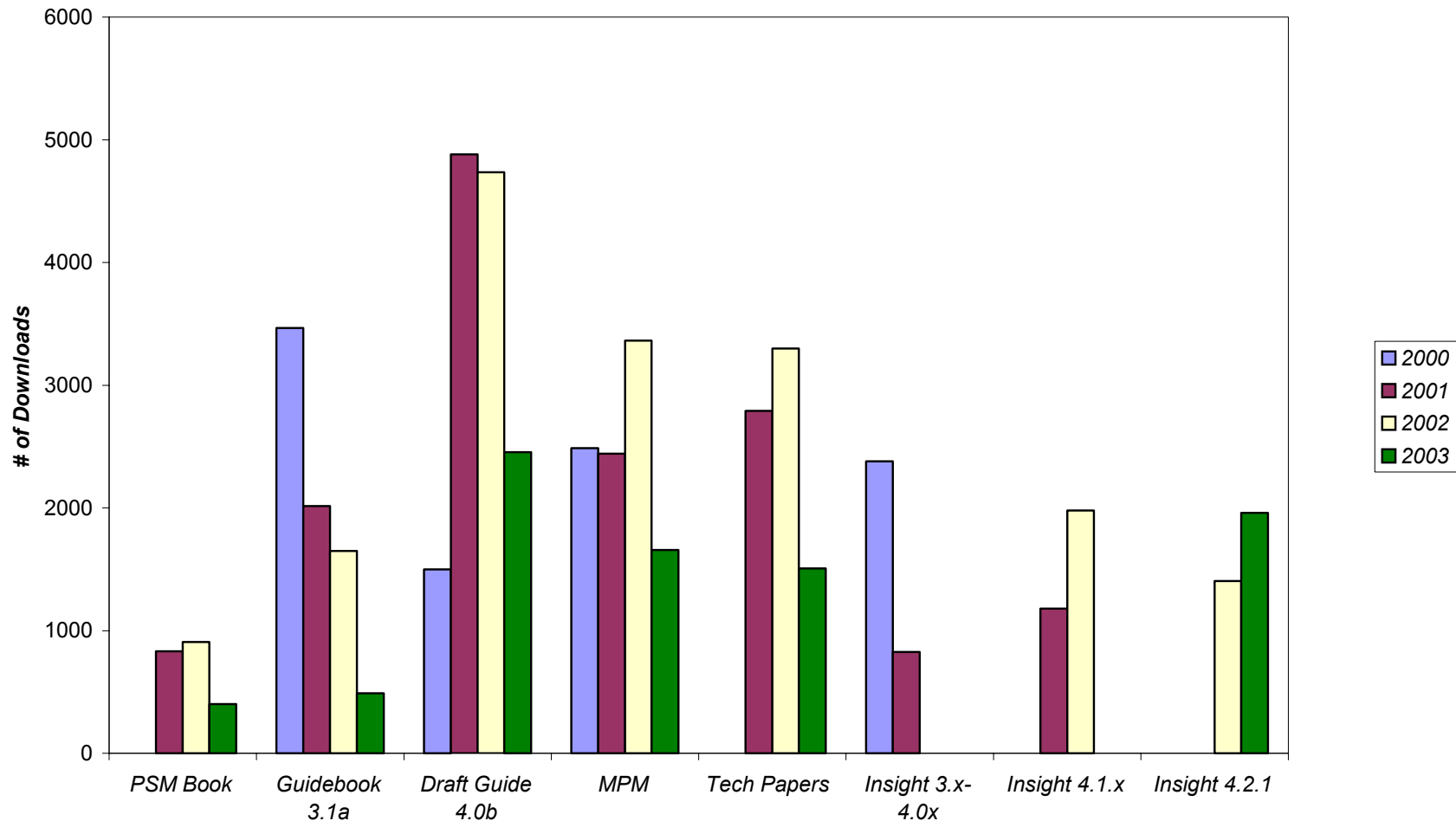
PSM Transition Activity (Cumulative as of June 2003)



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Web Downloads

As of June 2003



PSM Participating Organizations

DoD and Government

- ***US Air Force AFMC***
- ***US Air Force SSSG***
- ***US Air Force STSC***
- ***US Air Force CRSIP***
- ***US Air Force STRATCOM***
- ***US Army AMC***
- ***US Army ATEC***
- ***US Army CECOM***
- ***US Army SAALT***
- ***US Army SMDC***
- ***US Army TACOM - ARDEC***
- ***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 NUWC***
- ***US Navy NAWC***
- ***US Navy OPTEVFOR***
- ***US Customs Services***
- ***ODUSD (S&T)***
- ***OSD C³1***
- ***OSD PA&E***
- ***Aerospace Corp.***
- ***DCMA***
- ***DFAS***
- ***DISA***
- ***DLA***
- ***DAU***
- ***FAA***
- ***IDA***
- ***MITRE Corp.***
- ***NASA***
- ***Sandia National Lab***
- ***SEI***
- ***Soc. Sec. Admin.***

International

- ***Defence Materiel Org. (Australia)***
- ***Software Quality Institute (Australia)***
- ***Tangram Hi-Tech Solutions (Israel)***
- ***Liveware I.SS.A. (Australia)***
- ***Software Improvements PTY Ltd.***
- ***Ti Metrics, Brazil***
- ***University of York (UK)***

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PSM Participating Organizations

Industry

- *Alion Science and Technology*
- *ACS GSG*
- *American Sys. Corp.*
- *Argon Engineering Associates*
- *BAE Systems*
- *Bloodworth Int. Tech.*
- *Booz Allen Hamilton*
- *Carnegie Mellon Univ.*
- *CMIS*
- *CSC*
- *CTA*
- *Distributive Software*
- *DynCorp*
- *Federal Reserve Bank*
- *Frqunhofer Ctr. For Experimental Software Engineering*
- *Galorath, Inc.*
- *General Dynamics*
- *General Scientific Corp.*
- *Graeme & Garland*
- *GTE*
- *Hawaiian Electric*
- *IEEE*
- *IFPUG IITRI*
- *INCOSE*
- *Independent Engineering, Inc.*
- *ITABHI*
- *James Gregory Assoc.*
- *Kodak Health Imaging*
- *Litton/TASC*
- *Lockheed Martin*
- *L3 Communications*
- *Northrop Grumman Mission Systems*
- *OAQ Corporation*
- *QSM*
- *Quality Plus Tech.*
- *Raytheon - Hughes*
- *Reifer Consultants*
- *Robbins, GIOIA*
- *Rockwell Collins*
- *SAIC*
- *Sallie Mae*
- *Sentel*
- *Software Management Solutions*
- *SPC*
- *Sverdrup Tech.*
- *Tecolote Research*
- *TeraQuest Metrics*
- *Texas Guaranteed & Student Loan Center*
- *The David Consulting Group*
- *Tivoli*
- *TRW*
- *Tyrbrin Corporation United Defense*
- *Univ. Southern CA*
- *User Trust Network*
- *US West*
- *VPI - State University*
- *West Virginia High Tech. Consortium*
- *West Virginia University*
- *Whittaker Group*
- *Titan Corporation*
- *University of York*

Transition Organizations

DoD and Government

- ***PSM Support Center***
- ***US Army ATEC***
- ***AFMC CRSIP - STSC Measurement Teams***
- ***Federal Aviation Administration (FAA)***
- ***Software Engineering Institute***
- ***MITRE Corporation***
- ***Defense Systems Management College***
- ***Naval Undersea Warfare Center (NUWC)***
- ***Naval Air Warfare Center (NAWC)***
- ***DCMA***
- ***The Aerospace Corporation***

Overseas

- ***Defence Materiel Organisation (Australia)***
- ***Software Quality Institute (Australia)***
- ***Tangram Hi-Tech Solutions (Israel)***
- ***Liveware I.S.S.A (Argentina)***
- ***Software Improvements Pty Ltd. (Australia)***
- ***ti Metricas (Brazil)***
- ***University of York (UK)***

Transition Organizations

Industry

- *Lockheed Martin*
- *Software Productivity Consortium*
- *TeraQuest Metrics*
- *INCOSE*
- *Northrop Grumman Mission Systems*
- *Distributive Software*
- *Quality Plus Technologies, Inc.*
- *DynCorp*
- *Texas Guaranteed & Student Loan Center*
- *The David Consulting Group*
- *Argon Engineering Associates*
- *Software Management Solutions*
- *Titan Corporation*