

Practical Software and Systems Measurement

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A foundation for objective project management



***PSM Technical Working
Group Meeting
Herndon, VA***

March 26-27, 2003



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***Conference Welcome
and Introductions***

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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

- ***Meals***
 - ***Continental Breakfast Daily***
 - ***Snacks Provided***
 - ***Please Make a \$20 Contribution***

 - ***Lunch Downstairs in Cafeteria (on your own)***

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Agenda

- **Wednesday**
 - ***Presentations, 0830 - 1630***
 - ***Measurement Specification Workshop, 1630 - 1830***
- **Thursday**
 - ***Workshops***
- **After Meeting**
 - ***Presentations and Workshop Materials Available from PSM Web Site (www.psmc.com)***

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Workshops

- *Measurement of Safety and Security Processes*
- *Enterprise Measurement Framework*
- *Measurement in the Rational Unified Process*
- *Measurement of System of Systems*

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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)***
 - ***Enterprise measurement (including 804 language)***
 - ***Measurement in the Rational Unified Process (PSM/Rational collaboration)***
 - ***Measurement of system of systems (PSM/DAU collaboration)***
- ***Develop Experience Report***

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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***

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FY03 Schedule - Public Courses

- ***PSM Training***
 - ***12-13 May 2003 - VA area***
 - ***8-9 September 2003 - VA area***
- ***PSM Insight Training***
 - ***14-16 May 2003 - VA area***
 - ***10-12 September 2003 - VA area***
- ***Users' Group Meeting***
 - ***14-18 July 2003, Keystone, Colorado***

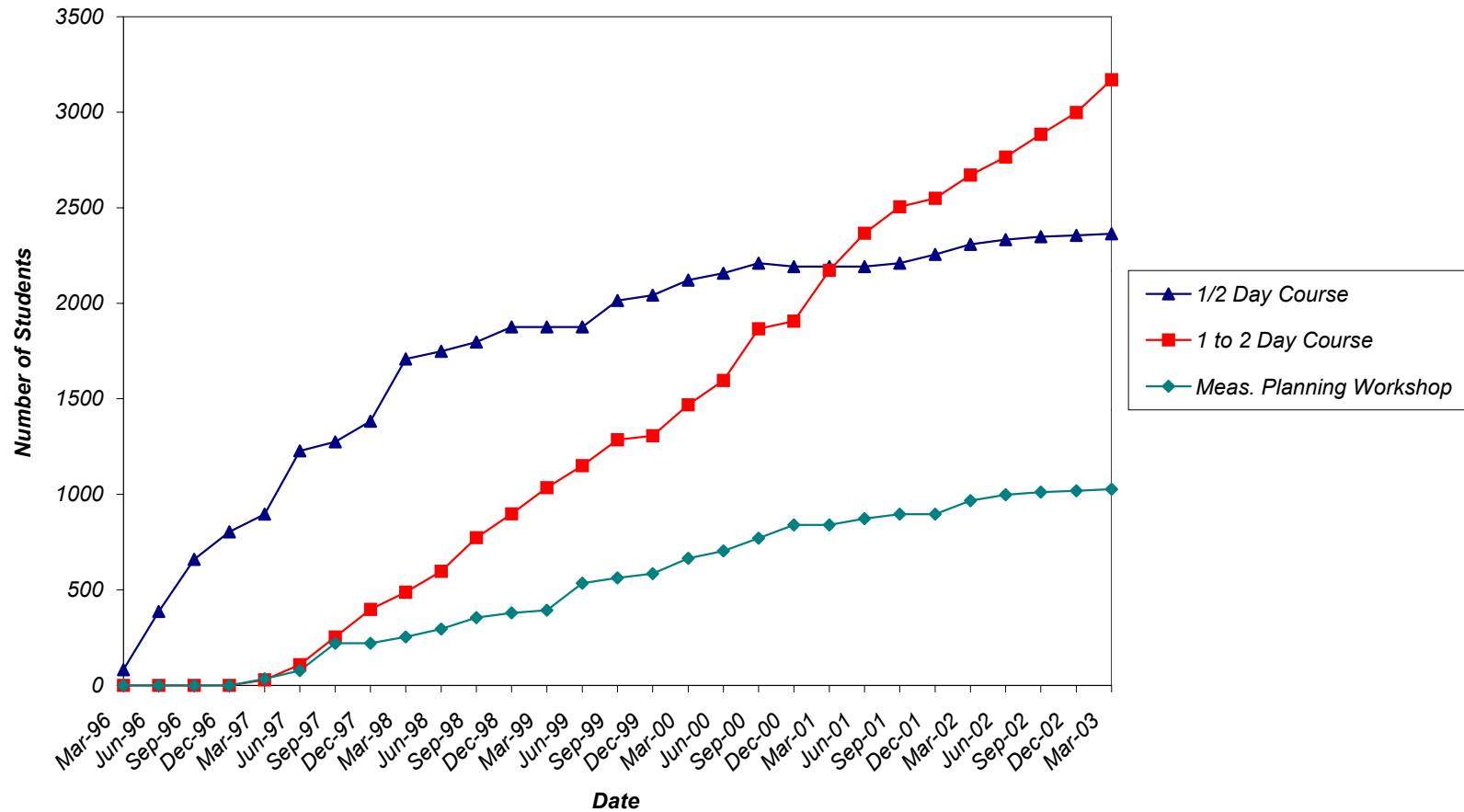
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FY03 Schedule - PSM Trainers

- ***PSM Train-the-Trainer Course***
 - *21-23 May - SPC, Herndon, VA*
 - *10-12 September - Los Angeles, CA*
- ***PSM v5.0 Refresher Training***
 - *14 July 2003 (1st day of Users' Group)*

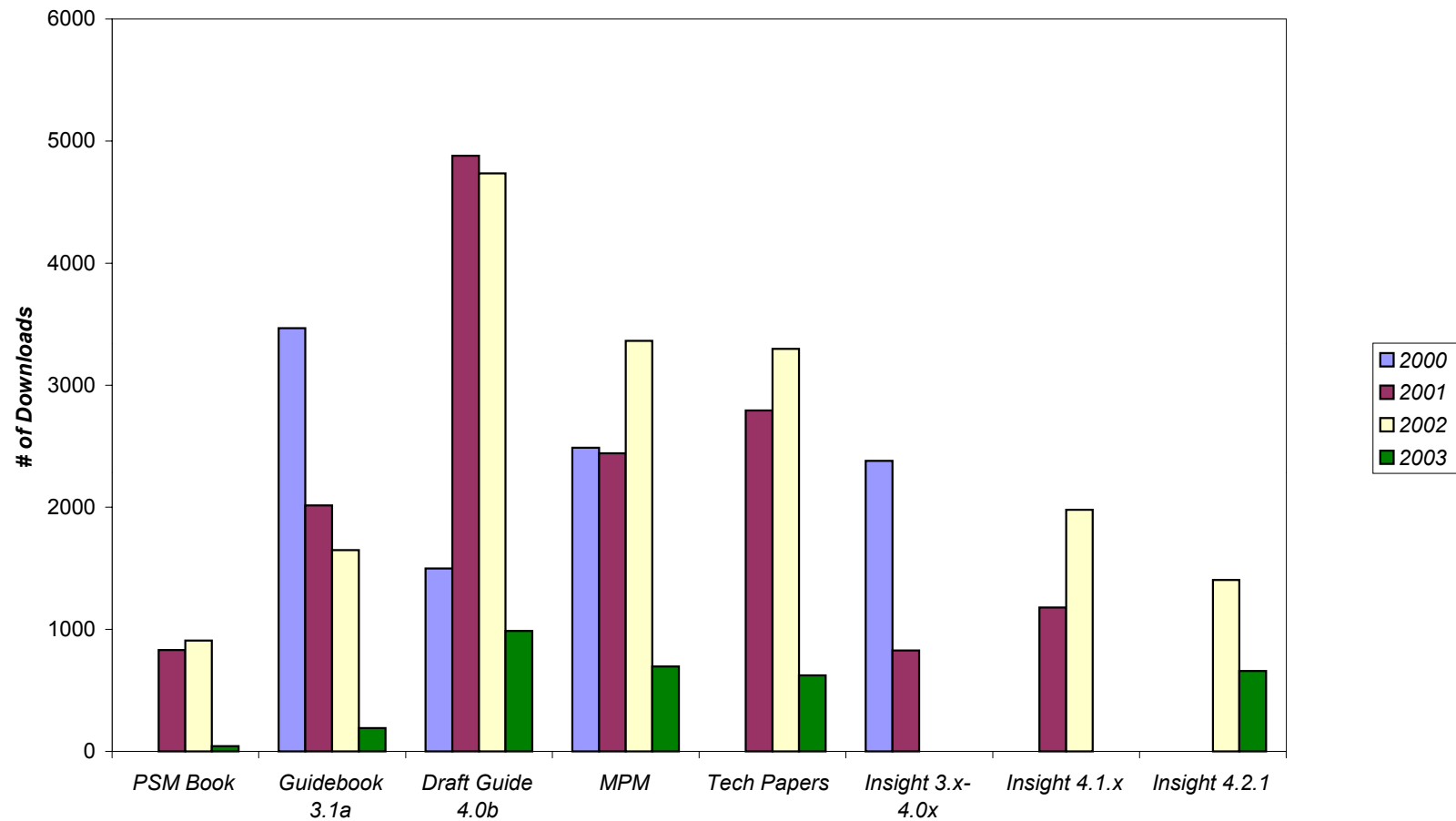
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PSM Transition Activity (Cumulative as of mid-March 2003)



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Web Downloads As of mid-March 2003



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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 FMSSO***
- ***US Navy NAVAIR***
- ***US Navy NAVSEA***
- ***US Navy NAWC***
- ***US Navy NRL***
- ***US Navy NSWC US***
- ***Navy NUWC***
- ***US Navy OPTEVFOR***
- ***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)***
- ***LiveWare (Argentina)***
- ***NRC (Canada)***
- ***Software and Systems Engineering (Israel)***
- ***Software Improvements (Australia)***
- ***Software Quality Institute (Australia)***

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PSM Participating Organizations

Industry

- ***ACS GSG***
- ***American Sys. Corp.***
- ***BAE Systems***
- ***Bloodworth Int. Tech.***
- ***Carnegie Mellon Univ.***
- ***CMIS***
- ***CSC***
- ***CTA***
- ***Distributive Software***
- ***DynCorp***
- ***Federal Reserve Bank***
- ***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***
- ***OAO Corporation***
- ***QSM***
- ***Quality Plus Tech.***
- ***Raytheon - Hughes***
- ***Robbins, GIOIA***
- ***Rockwell Collins***
- ***SAIC***
- ***Sallie Mae***
- ***Sentel***
- ***Software Metrics***
- ***SPC***
- ***Sverdrup Tech.***
- ***Tecolote Research***
- ***TeraQuest Metrics***
- ***Tivoli***
- ***TRW***
- ***United Defense***
- ***Univ. Southern CA***
- ***User Trust Network***
- ***US West***
- ***VPI - State University***
- ***West Virginia High Tech. Consortium***
- ***West Virginia University***
- ***Titan Systems***

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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***

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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***

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)***