Nineteenth Practical Software and Systems Measurement (PSM) Users' Group Workshop
Call for Speakers

"Fundamental Measurement Principles: The Basis for Advanced Engineering Decision Information"

Crystal City, Virginia
10 – 14 September 2018

As systems become larger, more complex, and more interoperable, systems and software engineering has to adapt to address needs for agility, resilience, and digital environments. At this year's PSM Users' Group, attendees will have the opportunity to share measurement experiences and ideas in the areas of agile, cybersecurity and resilience, modular open system approaches, digital engineering and artifacts, system-of-systems, affordability, data analytics, software sustainment cost estimation, and cost estimation.

The PSM Users' Group provides the opportunity for PSM users and measurement practitioners to share experiences in issue-driven measurement and learn about changes in the measurement community through attendee presentations. Attendees will also participate in workshops that provide a foundation for measurement in new engineering areas. Measurement users and measurement professionals from DoD, government, and industry are encouraged to attend.

If you are interested in speaking at the Users' Group, or leading a workshop, please provide an abstract by 10 May 2018 to _PSMUG2018@psmsc.com_. More details are provided later in this file.

This workshop will be held at the Lockheed Martin Global Vision Center in Crystal City. The registration fee will be $295 per attendee.

Location: Lockheed Martin Global Vision Center • 2121 Crystal Drive • Arlington, VA 22202
Directions and hotels will be provided upon registration.

Preliminary Agenda

Monday	Registration, PSM Training, PSM Trainer Refresher Session for qualified trainers
Tuesday	Welcome, Keynote, User Presentations (a.m.), Workshops (p.m.)
Wednesday	Keynote, User Presentations (a.m.), Workshops (p.m.), Group Dinner
Thursday	User Presentations (a.m.), Workshops (p.m.)
Friday	User Presentations (a.m.), Workshop Outbriefs (a.m.), Wrap-Up at noon

If you use measurement in your organization or have a measurement-related experience that could benefit others, you are encouraged to propose a presentation and/or workshop.

All speakers must submit a registration form. Registration information will be available by 30 March on http://www.psmsc.com/Events.asp.

Presentations

We are particularly interested in the experiences of measurement practitioners in areas related to the theme, "Fundamental Measurement Principles: The Basis for Advanced Engineering Decision Information". We are particularly interested in presentations addressing how to measure performance, risk, and cost impacts.

We welcome submittals about measurement related to emerging technologies and trends, including:
- System-of-systems
- Cybersecurity and resiliency
- Mission engineering
- Technical debt
- Measurement for agile, DevOps, or other evolutionary developmental approaches
- Cost measurement and modeling, and other
- Measurement and estimation of system or software maintenance and sustainment
- COCOMO3 - COSYSMO
- IT Measurement - Infrastructure, Services, Cloud Computing, Help Desks and Administration
- Analytics and big data
- Measurement for model based system engineering - digital engineering - digital artifacts
- Measuring technical debt
- Critical infrastructure
- Measuring affordability of systems and software
- Measurement for mission engineering (across portfolio)

Presentations should last 45 minutes, and should provide experience-based guidance and information for participants. As always, actual implementation experience with real data is highly valued. Presentations may provide:
- <u>Examples</u> of measurement implementations in specific projects, programs, or processes
- Case studies, trends, or other <u>experiences</u> with organization and enterprise measurement
- Current initiatives and progress with <u>industry standards</u> or <u>best practices</u> in measurement
- Recent developments and <u>lessons learned</u> with respect to measurement driven by information needs.

Workshops

Workshops should focus on developing guidance for specific areas of measurement. Attendees will be asked to bring specific materials to share and practical guidance and examples will be developed. All workshop results will be posted on the web site. Workshops will last 3½ hours.

We are currently planning the following workshops:
- SOS measurement
- Agile - DevOps measurement
- Measures of Cybersecurity
- Affordability measurement
- Measures for Modular Open System Approaches - Resilience
- Measures of Digital Engineering Systems - Digital Artifacts
- Estimating software maintenance and sustainment
- COSYSMO advances (Systems Engineering Cost Estimation)
- COCOMO 3 (Software Cost Estimation)

We welcome abstracts for additional workshops related to the topics above, or new ideas. Workshops last 3½ hours, and should provide participants with the opportunity to discuss measurement needs and solutions.

<u>Important Dates</u>

Speaker abstracts and biographies due:	May 10, 2018
Notice of selection:	June 5, 2018
Presentation due:	September 5, 2018

<u>Abstract and Biography:</u>
In your submittal, please include your name, title, organization, address, phone, and email. In addition, include the following information for the type of session that you wish to offer.

For Presentations: Please provide an abstract and a biography. The abstract should be one-half page or less, and it should include your presentation title, a short description of your proposed presentation and the key lessons or concepts that will be conveyed. The biography should be no more than one-half page in length.

For Workshops: Please provide a workshop description and a biography. The description should include:
- Prerequisites (materials attendees should review ahead of time)
- Materials to bring (from their organization or project)
- Discussion (what will be accomplished)
- Goals and products (what will be produced as a result of the workshop)

The workshop description template can be downloaded on the PSM Events page, http://www.psmsc.com/Events.asp. The biography should be no more than one page in length.

Sponsored by the PSM Support Center and the
International Council on Systems Engineering (INCOSE)

Please send your proposal(s), via email, to:
PSMUG2018@psmsc.com