Capers Jones (Namcook Analytics LLC)

The speaker:
Mr. Capers is currently Vice President and CTO of Namcook Analytics LLC. Formerly President of Capers Jones & Associates LLC. This is an international consultancy dealing with software metrics, software measurement, software quality, and litigation support. Worked at IBM from 1965 until 1978. Left IBM with 40 others to form a new software laboratory for ITT in Stratford, CT. Founded Software Productivity Research (SPR) in 1984. SPR was a pioneer in software cost estimating, software assessments, and software benchmarks. Allan Albrecht, the inventor of function points, worked at SPR after leaving IBM. Other well-known metric and function point experts who worked at SPR include Michael Bragen, Doug Brindley, Tom Cagley, Mike Cunnane, David Garmus, Bill Harmon, David Herron, David Longstreet, and Mark Pinis. SPR was sold in 1998. After four years it was repurchased by employees. Doug Brindley is the President and Michael Bragen the VP of Technology. Author of 17 books, most of which deal with assessments, estimating, measurement, and project management.

Dan Horvath (Progressive Insurance Corporation)

Getting your Projects off to a Good Start Using a Project Initiation Centre of Excellence

- What is a Centre of Excellence (CoE), and why have one for Initiation?
- What does a PICoE do?
- Rough Order of Magnitude Estimation Lives Here
- Accurate and Effective Metrics are Vital
- How to Stand up a PICoE for Your Organization

Many IT Projects overrun their budgets, and a sizeable percentage even fail outright. Moreover, how can project teams and sponsors be sure that they are undertaking the right projects at the right times to provide maximum benefit, even considering limited resources? A Project Initiation Centre of Excellence can help. A PICoE will practically ensure that projects are initially defined with more scrutiny, discipline and rigor, so that they will be able to proceed through execution with optimum speed and efficiency to be most effective in reaching project and organizational goals. The primary function of a PICoE is to ensure that projects are defined, estimated, prioritized, staffed and slotted for execution. This is accomplished by the creation of a Business Case, as well as a rigorous
approach to the creation of an initial project estimate. That assessment is known as a Rough Order of Magnitude (ROM) estimate.

Regarding the ROM, the determination of project size so early in the project life cycle is challenging. Functional sizing and other top-down estimation methods should be employed as much as possible. Project historical data and other metrics should be applied as much as possible. The more that is known about the desired end-state functionality, the better the ROM.

The steps required to stand up a PICoE may require a project in itself. Just as the PICoE itself must be tailored to each organization, the steps to stand one up should be tailored as necessary as well.

The speaker:

Dan Horvath is a Project Planning Analyst in the Enterprise Project Management Office at Progressive Insurance Corporation. In this capacity, Dan produces project estimates based on assessments, analysis and historical data. He also facilitates project benchmarking and performs data analysis using project metrics.

Dan holds a B.S. in Computer and Information Science from Cleveland State University, and an M.S. in Information Systems from Marshall University. His background includes application development, project management and software metrics. Dan has written articles, taught courses, and presented papers on functional sizing and metrics, including presentations at ISMA7 and ISMA10.

Prior to joining Progressive, Dan was a Senior Consultant at Q/P Management Group, and has also worked at Electronic Data Systems and General Electric Corporation. Dan maintains Certified Function Point Specialist and Project Management Professional credentials.

Eduardo, Alves de Oliveira (SERPRO – Federal Processing Service Data from the Ministry of Finance of Brazil)

Non-functional Requirements in SISP

- Overview of SISP (version 2.2);
- SISP in Software Development Contracts;
- How SISP counts Non-functional Requirements;
- SISP limitations to count Non-functional Requirements;
- Counting Examples.

For some years the Brazilian government has adopted the payment of your software projects using function point. Many adjusts in the software development contracts were necessary to count how many function points were using to pay contracts. It’s not possible to use a functional metric without adjusts to pay software development contracts. Functional size is the size of the project’s scope and it doesn’t the project’s effort to deliver the software product. The Federal Brazilian government created a manual to size the effort of the project. This manual uses the functional size to derive the effort of the project using formulas. This manual defines many types of maintenance projects unforeseen in the CPM. Your name is SISP (System of Administration of Information Technology Resources) and the actual version is 2.2. SISP is only know in the Brazil (is not an ISO). SISP counts non-functional requirements in software maintenance
projects through counting types. However, the SISP has limitations to count non-functional requirements. Sometimes it is necessary to incorporate particularities in the contracts to deal with its limitations.

The speaker: 
Eduardo has a master’s degree in IME (Engineering Military Institute). Degree in computer science from UFRJ, postgraduate in UFRG and NCE-UFRJ. Professional experience of over 18 years in information technology. CFPS since 2004. CSP since 2013. Systems Analyst and Instructor SERPRO (Federal Processing Service Data from the Ministry of Finance of Brazil). Consultant in software metrics and quality. Instructor in postgraduate courses at CCE (Central Extension Courses) from PUC-Rio University (Disciplines Metrics Software Projects and Quality Software). Was selected to be a speaker at: Nesma Autumn Conference 2015 (Utrecht, Holland), The Tenth International Conference on Software Engineering Advances - ICSEA 2015 (Barcelona, Spain), Nesma IWSM MENSURA 2014 (Rotterdam, Holland), WORLDCOMP’13 - SERP’13 - The 2013 International Conference on Software Engineering Research and Practice (Las Vegas, USA), ISMA 7 (Phoenix, USA - 2012), instructor and speaker at ISMA 5 (São Paulo, Brazil - 2010), speaker and member of the roundtable 2nd CBMAS (Brazilian Conference on Measurement and Analysis) (São Paulo, Brazil - 2011) and speaker at Metrics Conference 2012 (São Paulo, Brazil). One of the authors of the book “The IFPUG Guide to IT and Software Measurement” published by IFPUG in 2012

Joe Schofield (Independent Consultant)

Measurements in the IoT
- What is the IoT
- How are system boundaries obfuscated
- How ubiquitous and big is this challenge
- What is the role of measurement, FPA, and SNAP in the IoT
- How does 30 years of reflection influence our reaction

Much has changed over the past 30 years. Some 30 billion devices, 6 trillion-dollar impact, over 30 trillion addresses, aging systems accruing technical debt faster than it can be resolved; security, privacy, and governance, at risk! Huge numbers, big data. How do we determine meaningful measurements in very non-traditional software systems participating in the IoT? What role does FPA or SNAP play or is this all just fake news? Engage with us as we try to imagine scoping the size of this challenge.

The speaker: 
Joe Schofield - Biographical Highlights are: Consults today with the largest gaming organization in the world, and other clients primarily in the US. Maintains six agile certifications, and is an active agile coach and trainer. Contributes to the ScrumBOK™ with SCRUMstudy™. Develops and conducts agile transitioning and essential skills for scrum success workshops attended by hundreds. Developed and taught over 70 graduate level courses in MIS Decision Making and Software Engineering for the College of Santa Fe. Authored over 80 published articles and/or conference presentations in industry journals on agile, IT development, and measurement, as examples. Retired in 2011 as a Distinguished Member of the Technical Staff from Sandia National Laboratories after a 31-year career. Serves as President Emeritus of the
International Function Point Users Group (IFPUG) after a two-year Board-elected term as President; a total of seven years on the Board of Directors. As President, IFPUG membership increased and the annual budget was not exceeded. Chaired the Management Reporting Committee for the International Function Point Users Group 2005 - 2007. Principal developer of the Certified Software Measurement Specialist designation.

Luigi Buglione (IFPUG / Engineering Ingegneria Informatica SpA)

The ‘functional side’ of Security – how to apply FPA to a typical non-functional attribute (approved as CFPS Certification Extension Program Activity)

- What is ‘security’
- Coming back to definitions: FUR vs NFR
- How security is managed in a typical ICT system
- What is the role of measurement, FPA, and SNAP in security
- Which is the impact on your FPA counts

Security is one of the ISO/IEC 25010:2011 characteristics, thus seen as a non-functional attribute and is also considered in IFPUG SNAP within §1.3. But are we sure that security wouldn’t have also its ‘functional side’? From the login process on, each functionality can be browsed and accessed only verifying that such user is allowed to do that but – at the same time – each passage must be logged because of the security system’s (user) viewpoint. Thus, the presentation will discuss and present – according to IFPUG FPA rules – which should be the way to consider both sides of security, including the ‘functional’ one and its impact on a final FPA count.

The speaker:
Luigi Buglione is a Measurement & Process Improvement Specialist at Engineering Ingegneria Informatica SpA (formerly Atos Origin Italy and SchlumbergerSema) in Rome, Italy and Associate Professor at the École de Technologie Supérieure (ETS) – Université du Québec, Canada. Previously, he worked as a Software Process Engineer at the European Software Institute (ESI) in Bilbao, Spain. Luigi is currently the IFPUG Director for Conference and Education and the President of GUFPI-ISMA (Italian Software Metrics Association). Measurement Certifications: IFPUG CFPS, CSP, CSMS and COSMIC CCFL. He’s a regular speaker at international Conferences on Software/Service Measurement, Process Improvement and Quality, actively part of several International (ISO WG10-25-40, IFPUG, COSMIC, ISBSG, MAIN) and National (GUFPI-ISMA, AutomotiveSPIN Italy, AICQ, itSMF Italy) technical associations on such issues. He developed and was part of ESPRIT and of Basque Government projects on metric programs, EFQM models, the Balanced IT Scorecard and QFD for software and is a reviewer of the SWEBOK project (2004 and 2010 editions). He achieved several certifications, included IFPUG CFPS, CSP and CSMS. He received a Ph.D in Management Information Systems from LUISS Guido Carli University (Rome, Italy) and a degree cum laude in Economics from the University of Rome “La Sapienza”, Italy. Info:
https://semqblog.wordpress.com/
Juan Cubillos & Jairo Aponte (Universidad Nacional de Colombia)

Contracting for Software Development Outsourcing based on Function Points: A Colombian Case Study

- To describe and analyze a real scenario where a company defined a contract based on function points and ISBSG data.
- Use of proof of concept, productivity rate and functional size to select software providers

Companies use function points both as a tool to measure the size of their software projects and products portfolios and as an essential instrument for project planning and control. Many of those organizations follow outsourcing approaches for software development and they must structure contracts for software development services taking into account specific aspects in this scenario. This paper presents a case study where a financial company in Colombia proposes a contract model driven by IFPUG function points and ISBSG statistics. The key elements of this model compared to a traditional contract are related to the selection of the software development provider, the process of software measurement and estimation on the contract execution, definition of productivity rate, software quality and opportunity metrics, support and maintenance services and payment approach associated with each service established in the contract.

The speakers:

Juan Cubillos is from Colombia, South America. His bachelor degree is in Computer Science and he has a master’s degree in Administration. Also, he has a master’s degree in Information Systems from University of Maryland and currently he is pursuing a master’s degree in Computer Science from Universidad Nacional de Colombia. He maintains certifications as Project Management Professional (PMP), Enterprise Architect (TOGAF) and Certified Function Points Specialist (CFPS). He has more than 18 years of experience in Software Project Management. His topics of interest are related to software measurement and estimation, project planning and organizational project management.

Jairo Aponte is from Colombia, South America. He earned a Bachelor and a Master degree in Computer Science from the Universidad de los Andes (Bogotá), and a Ph.D. in Computer Science from Universidad Nacional de Colombia (Bogotá). Currently, he is an associate professor at the Department of Computer systems and Industrial Engineering at Universidad Nacional de Colombia. He is particularly interested in software engineering topics such as evolution and maintenance, quality, agile development and software visualization.

Carol Dekkers (President, Quality Plus Technologies, Inc.) & Daniel French (Principal Consultant at Cobec Consulting, Inc.)

Software Sizing comes of Age – It’s about Time!
Topics covered: Origins of FSM, through the ages (the past 30 years of IFPUG), Agile, the IEEE PAR for SNAP, the Next 30 Years of Opportunity.
How the world views/uses FPA through the ages and going forward. Ideas for expanding usage of software sizing.

The speakers:
Ms. Carol Dekkers is a Certified Function Point Specialist (CFPS-Fellow), and is an expert in measurement-based project estimation and software metrics. She is uniquely qualified to advise IT teams on best practices as she is also a Project Management Professional (PMP), a Professional Engineer (Canada) and is Agile Expert Certified (AEC), and Scrum Master Certified (SMC).
With over 25 years of FP and metrics experience, she is equally comfortable working with technical professionals and “C” suite executives who want to achieve success with software measurement. Carol’s background and consulting experience spans a wide range of industries including banking, healthcare, insurance, engineering, military, government, and others. As a result of Carol’s leadership, her clients attain success in function point analysis, project estimation, software measurement and project management.
Carol has shared her expertise by keynoting international project management and measurement conferences in over 30 countries, including SAP’s (Germany) Global Quality Days. She is a published author of Function Points: Tools for Project Management Metrics; the co-author of industry textbooks including: The IT Measurement Compendium: Estimating and Benchmarking Success with Functional Size Measurement; IT Measurement: Practical Advice from the Experts; Program Management Toolkit for Software and Systems Development; Practical Project Estimation; Fundamental Concepts for the Software Quality Engineer, Volume 2; The IFPUG Guide to IT and Software Measurement; a frequent contributor to Quantitative Software Management’s blog (QSM.com) and her own MusingsAboutSoftwareDevelopment.WordPress.com blog; and has published over 100 industry articles.
Carol has been a member of the International Function Point Users Group (IFPUG) since 1992 and currently serves as the Director of Communications and Marketing on their Board of Directors (previously holding past positions as President since 1994.)

Mr. Daniel French has twenty years of experience in a variety of Information Technology roles including application analyst, developer, tester, project management, software metrics and software project estimation. Additionally, he has developed CMMI and ISO compliant process improvement and software estimation processes.
He has been International Function Point User Group (IFPUG) member and Certified Function Point Specialist (CFPS) since 2000. He currently serves as Chairman of the IFPUG Functional Software Sizing Committee (FSSC) and is a former member of the IFPUG conference committee. He has authored or co-authored white papers on a number of software measurement and estimation topics including the application of function point analysis to Data Warehouses and the use of function point analysis in COTS acquisitions.
He is a member of ICEAA, the Project Management Institute (PMI), the Agile Alliance, and the General Accounting Office (GAO) Cost Expert Group and is a Six Sigma Yellow Belt.
Mr. French holds a B.S. in Economics from the Virginia Polytechnic Institute and State University and is a graduate of the Chubb Institute’s Top Gun training program and is a PMI certified Project Management Professional (PMP) and Certified Scrum Master (CSM),