<h1 style="text-align:center; color:red;">Boston Area SAS® Users Group (BASUG)
Quarterly Meeting Announcement</h1>

<div style="text-align:center;">

Friday June 21, 2019
8:15 AM – 12:00 PM

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We are pleased to announce that our second quarterly meeting of the year will be held in a **new Kendall Square Location**! The meeting features SAS programming talks on SAS web development, the efficiency benefits of rolling your own parallel processing in Base SAS, and one of the most heated debates in any programming language: tabs vs. spaces.

Please join us for these informative talks, and consider staying for the afternoon training class (separate event), taught by Troy Martin Hughes. *For information on the training, please visit the* [Training Announcement.](#)

After the meeting, we will provide an informal light buffet lunch for all attendees. We hope you can stay for this opportunity to network and socialize with your fellow SAS users.

Agenda*

8:15 AM	**Sign in and Continental Breakfast**
8:45 AM	Announcements
9:00 AM	**Building an Internal Application Using the SAS Stored Process Web Application** *by Mara Werner, U.S. Department of Health & Human Services*
9:50 AM	BREAK
10:00 AM	**BASUG Steering Committee Update / Membership Survey Results**
10:30 AM	**The Secret Life of Spaces and Tabs in SAS Program Editors** *by Vanessa Hayden, Takeda*
10:45 AM	BREAK
11:00 AM	**Parallel Processing Your Way to Faster Software and a Big Fat Bonus: Demonstrations in Base SAS** *by Troy Martin Hughes*
12:00 PM	Networking Lunch

*Note: Times (and sequence) are approximate and subject to change. Please re-visit the BASUG website (www.basug.org) for updated information.

Abstracts and Speaker Biographies

Building an Internal Application Using the SAS Stored Process Web Application
by Mara Werner, U.S. Department of Health & Human Services

Using the SAS Stored Process Web Application and SAS prompts we can take existing code and modify it to accommodate different flavors of our most common requests. We use ODS PDF for

the layout and presentation and we serve it up with a custom html and JavaScript front end so that our customers get an easy to use, modern looking web form and results delivered to their email box, usually within 10 minutes. Our customers love getting results on demand and we love that they can fish for themselves, which frees us up for more interesting work.

Mara Werner is a data scientist for the U.S. Department of Health and Human Services, Office of the Inspector General (OIG). She is part of a team that uses the SAS Stored Process Web Application to create self-service tools for OIG staff to provide summarized data and charts on demand through a web portal. When she's not programming in SAS, Mara enjoys running, biking, acrobatics, and trapeze.

The Secret Life of Spaces and Tabs in SAS Program Editors
by Vanessa Hayden, Takeda

Have you encountered messy indentation when you open your colleagues' SAS programs? Due to the way SAS program editors work, programmers may be inserting a mixture of tabs and spaces for their indentation, without even knowing it. Learn how the SAS editors behave, and the simple default setting change that will fix it all.

Vanessa Hayden started learning SAS in graduate school and it took her on an interesting path through institutional research, survey research, credit risk management, corporate performance metrics, database marketing, pharmaceuticals and biotechnology, health care effectiveness, and litigation support. She loves meeting new data and finding the best way to get meaningful answers out of it. She also loves training and mentoring in SAS programming *(especially the part where you need to understand the data!)*, which she has had many opportunities to do in her 25+ year career. Vanessa currently works at the Data Science Institute in Takeda's Research and Development organization.

Parallel Processing Your Way to Faster Software and a Big Fat Bonus:
Demonstrations in Base SAS
by Troy Martin Hughes

SAS programs, and especially extract-transform-load (ETL) systems, commonly include processes that must be serialized due to real process dependencies. For example, data cleaning and transformation cannot begin until data extraction completes, and data loading cannot begin until data transformation completes. These and other real process dependencies necessitate serialized software design in which data integrity is conferred in part because data follow a sequenced chain of custody from one process to the next. In other cases, however, processes or data can be distributed across two or more SAS sessions that run in parallel, facilitating significantly faster software. This text introduces the concept of false dependencies, which occur when software is serialized by (poor) design rather than necessity. SAS practitioners will learn how to recognize and overcome three types of false dependencies through parallel software design, arming them to accelerate both their software and salaries! In a final example, parallel design is applied to the FREQ procedure to produce the FREQFAST SAS macro which runs up to four times faster than the out-of-the-box FREQ.

Troy Martin Hughes has more than 20 years of experience leading SAS teams and projects in support of federal, state, and local government initiatives. Since 2013, he has given more than 90 presentations, trainings, and hands-on workshops at SAS conferences, including at SAS Global Forum, SAS Analytics Experience, WUSS, SCSUG, SESUG, MWSUG, and PharmaSUG. Additionally, he has authored two books that model design and development best practices:

- *SAS Data Analytic Development: Dimensions of Software Quality (2016)*
- *SAS Data-Driven Development: From Abstract Design to Dynamic Functionality (2019)*

Troy has an MBA in information systems management and numerous certifications including SAS Base, SAS Advanced, SAS Clinical Trials, PMP, PMI-RMP, PMI-PBA, PMI-ACP, CISSP, CSSLP, ITIL, CSM, CSD, CSPO, CSP-SM, and CSP-PO. He is a US Navy veteran with two tours of duty in Afghanistan.

Event Details

When	**Friday, June 21, 2019** 8:15 AM – 12:00 PM
Where	The Link [1] 255 Main Street, 8th Floor Cambridge, MA 02142 617-945-2562
Directions	Please visit the meeting site directions page. There is no on-site parking. The Link is next to the Kendall Square Red Line station. There are also public parking lots in Kendall Square.
How to register	Individual, on-line registration required. Please visit the event registration page **Registration closes at NOON on Wednesday June 19th!** **NO WALK-INs!** On-line pre-registration is required for all attendees!! Please register early! Seating is limited.
Payment	$10 – if paid on-line by Tuesday, June 11 $15 – if paid on-line by **NOON** on **Wednesday, June 19th** $20 – pay-at-the-door (checks only) – but pre-registration is required!
Refund Policy	We do not offer refunds for quarterly meetings.
Contact	If you have questions about the meeting, contact our meeting organizers: Lori Goldman and Quentin McMullen at: Event Organizers.

New Location!

BASUG Contacts

Mailing Address:

> BASUG
> PO Box 170253
> Boston, MA 02117

Email the BASUG Webmaster

(1) The Link serves as a connection between the innovation economy of Kendall Square and Greater Boston, and underrepresented job seekers. It was championed and developed by the Cambridge Redevelopment Authority and Boston Properties as a workforce training and employment solution, in keeping with the innovative and entrepreneurial spirit of Kendall Square. Operated by TSNE MissionWorks, the developer of The NonProfit Center in Boston, The Link welcomes a variety of organizations to use its event facilities, classrooms and meeting spaces for training, education, and gatherings. The Link is home to a host of nonprofits who offer career development and technical training programs.