



American Society for Quality (www.asq.org) – Washington D.C. and Maryland Metro, Section 509 (www.asq509.org)

Biomed/Biotech Special Interest Group (SIG) Meeting

“Design of Experiments - The Primary Tool in Quality-by-Design”

To be presented by

Martin Kane, MS
(martinkane2@yahoo.com)

Director of Process Statistics, Department of Biostatistics
Human Genome Science Inc.

Thursday, December 6, 2012

6:00 – 6:20 PM – Networking; Pizza/drink

6:20 – 8:30 PM – Program (intermission at 7:40 pm)

8:30 – 8:45 PM – Door-prizes drawing; Networking

Online Registration site: <http://www.asq509.org/ht/d/DoSurvey/i/35817>

Open to Public –

\$5: [non-ASQ members to cover pizza/drink cost;](#)

Free: [ASQ Members, veterans, senior citizens, students, interns, residents, postdocs, FDA Commissioner’s Fellows, and current job-seekers](#)

Location: Kelly’s Deli Conference Center, 7519 Standish Place, Rockville, MD 20855

Registration Deadline: Please register by **Thursday noon, December 6, 2012.**

Question: Please contact Dr. C.J. George Chang, Chair of Biomed/Biotech SIG, ASQ509; gchang2008@yahoo.com or 240-793-8425 (cell).

Driving directions: **By Car:** From I-270 (N or S bound): Take Exit 9A and exit from the FIRST right exit; turn left (east) onto Shady Grove Dr.; turn right (south) onto Rockville Pike (**Route 355**); turn left (east) onto East Gude Dr.; turn left (north) immediately onto Crabb’s Branch Dr.; turn left (west) immediately onto Standish Place. The first building on your right side is 7519 Standish Place; open parking). [The venue is on the first floor with its entrance opposite to the left side of building main entrance.](#) **By Metro train:** Off from Red Line **Shady Grove Station**, and take RideOn **Route 59 TOWARD ROCKVILLE** and get off from “**Calhoun Place**” stop. Standish Place is next to the Bus stop. Our venue is within 2 min of walking distance from the stop.

Summary:

Design of Experiments (DOE) are a powerful set of statistical tools that can be used in product and process development to increase knowledge, reduce waste, and innovate at an accelerated pace. This presentation will outline general DOE **concepts** for factorial and fractional factorial DOE's and **describe several DOE's** that were used to optimize process parameters. We will also discuss the **relationship** between DOE and **Quality-by-Design (QbD)**.

Presenter's Bio: Martin Kane, MS

Martin Kane is **Director** of Process Statistics in the department of Biostatistics at *Human Genome Science (HGS)*, Inc where he is responsible for all statistical analyses of PK, immunogenicity, neutralization, and potency assays, and he has implemented Design of Experiments (DOE's) across cell culture, purification, formulation, and analytical development processes.

Mr. Kane holds a Master of Science in Reliability Engineering and a Bachelor of Science in Mechanical Engineering, and is also an active Senior Member in the American Society for Quality where he is a **Certified Reliability Engineer (CRE)**.

Martin's is being "down-sized" due to "redundancies", because of the purchase of HGS by GlaxoSmithKline. His work at HGS will end in mid December, and he plans to seek new opportunities afterward to help with research and development programs and to solve operational challenges. Martin can be reached *via* his personal contact channel (martinkane2@yahoo.com; 240-426-7974).