



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

Biomed/Biotech Special Interest Group (SIG) Meeting
(<http://www.asq509.org/ht/d/sp/i/31557/pid/31557>)

“New View of US Science and Medical Research Innovation Potential – From the Perspective of STEM Students”

To be presented by

Margie A. Fat

(margie.fat@pgcps.org)

Milos Milenkovic

(milos.milenkovic@wfcpc.org)

Henry Stevenson-Perez

(henry.stevenson.perez@skmri.org)

Scientific Knowledge Management Research Institute

Thursday, December 11, 2014

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

6:20 – 8:45 PM – Program

8:45 – 9:00 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, past speakers, teachers, students, interns, residents, postdocs, FDA Commissioner’s Fellows, MJ-DC members, NTUAADC members, CAPA members, CKUAADC members, CCACC volunteers/employees, FAPAC members, CBA members, AAGEN members, Commissioned Corp officers, and current job-seekers.

Location: Cafeteria, **Julius West Middle School**, 651 Great Falls Rd., Rockville , MD 20855 (a new venue)

Driving directions: By Cars: Intersection of I-270 and Falls Road, Rockville.

Registration Deadline: Please register by **Thursday noon, December 11, 2014.**

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

Summary

The 21st Century American living-environment & economic-realities are rapidly transforming, with many brand-new levels of complexity, which have introduced many new levels of uncertainty, as our nation is rapidly leaving old “local communities”, “agriculture”, and “manufacturing” social-models behind – and as Americans are being progressively thrust into a new global, infinitely-digital, science & technology economy. America is not currently prepared to meet this challenge. Numerous international studies have confirmed that American students are ranked around #25 in the world, when it comes to their science, technology, engineering & math (STEM) skills.

A new scientific discovery, actually 50 years in the making, offers the promise of rapidly-growing the STEM workplace skills of young American students: This purely-mathematical scientific-language is known as the Scientific Knowledge Management (SKM) Citizen-Scientist Toolset. The SKM Citizen-Scientist Toolset is a multi-dimensional & easy-to-grasp map that reveals the primary scientific principles that govern human “health”, and a learner can only master its proper use through direct personal experimentation. Students who master the purely-mathematical SKM Citizen-Scientist Toolset system are able to provide accurate true-states assessments of dynamic physical-systems, by characterizing the key unchangeable universal dimensions of the dynamic system that is under consideration.

This presentation will describe more details about the development of the purely-mathematical SKM Citizen-Scientist Toolset system, how it actually works, and our results to date using this system (after 8 years of formal research) in practical educational settings, including with local middle-school STEM students.

Speakers' Bios:

Margie A. Fat, Milos Milenkovic, and Henry Stevenson-Perez

Margie Arreglo Fat has an undergraduate degree in childhood education and has served as a **STEM educator** for the past six years in the Prince George’s County Public School (PGCPS) System. She has extensive graduate degree training and advanced teaching certificates in this field. She is also the **volunteer director** of the Space-medicine Summer Academy (SSA) Program at Buck Lodge Middle School in Adelphi, Maryland. She seeks to discover new ways for empowering underprivileged, minority middle school students with STEM workplace-preparedness skills by means of the free, after-school

Scientific Knowledge Management (SKM) Citizen-Scientist Toolset Orientation program. She collaborates with senior scientists at Walter Reed, FDA, USDA, and NASA to bring valuable STEM workplace-preparedness resources to her students. Her long-term professional goal is to launch a non-profit Young-Innovators Pre-K STEM Academy, whereby the academic advantages of the purely-mathematical SKM Citizen-Scientist Toolset language can be offered to Americans at a very young age.

Milos Milenkovic holds an undergraduate degree in hospitality and business management. He has also engaged in a wide variety of post-graduate educational activities; most notably, shadowing the STEM teachers in the PGCPs school system and their senior scientist counter-parts in top federal agencies (such as USDA, FDA, NASA and Walter Reed) since 2009 as a **videographer**, seeking to document the pathways to STEM educational excellence for American children. Milos has produced several documentary films for the all-volunteer SKM Citizen-Scientist research team, and he has emerged as a **senior researcher** in this promising STEM educational field. His long-term goal is to launch a non-profit TV content production company that focuses upon helping Americans to understand the many educational challenges – & the huge opportunities – that we face, as we re-tool our public education system to deliver new levels of STEM workplace excellence in the 21st Century.

Henry Stevenson-Perez is a part-time **Senior Staff Scientist & Oncology Physician** at the Walter Reed National Military Medical Center (WRNMMC) in Bethesda, Maryland, specializing in conducting immune-based clinical trials for cancer: He has published nearly 200 articles & abstracts on this topic. He is also a life-long **science & medicine educator**, who has taken up the challenge of discovering new ways for restoring America's world-class standing in scientific discovery and medical innovation. He currently also serves as the **Volunteer Director** of the non-profit, Scientific Knowledge Management Research Institute (SKMRI).

This Biomed/Biotech SIG event is cosponsored by the Monte Jade Science and Technology Association of Greater Washington (www.MonteJadeDC.org) and NTU Alumni Association at DC (www.ntuaadc.org).