



March 2018  
Volume 12, Issue 7

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### **Presentation by Gordon Clark on March 1** **“Improving Performance Using an Integrated Theory of Constraints, Six Sigma and Lean”**

Improving performance and quality are keys to continued business success and, in the big picture, are integral to improving society's standard of living. Gordon Clark, who has spent a long career in studying and teaching about quality, will explain the theory and processes of improving business systems in his Torch paper on March 1.

“Six Sigma and Lean are two commonly used methods to improve the performance of business systems,” Gordon says. “Six Sigma focuses on reducing variation in the system output. Variation causes waste and inefficient operations. Lean focuses on reducing unnecessary operations and thereby contributes to speed and less inventory. The core concept in the Theory of Constraints (TOC) is that every organization has at least one constraint that limits its improvement. TOC has procedures to identify and improve the constraints.”

Gordon notes that the successful results from implementing Six Sigma, Lean and TOC has motivated engineers to develop procedures to integrate the methods. In his Torch paper, he will discuss the results from applying the integrated methods and the effectiveness of the different methods.



**Gordon Clark**

### **Biography of Gordon Clark**

Gordon Clark is professor emeritus of integrated systems engineering at The Ohio State University and a principal consultant with Clark Solutions, Inc. He taught the simulation course for OSU's Department of Industrial and Systems Engineering for more than 20 years. With Clark Solutions, he has been a member of a team that completed 33 performance-improvement assessments of manufacturing companies.

Gordon is a Fellow of ASQ, an international organization of professionals interested in quality. He has

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## **Biography of Gordon Clark**

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been chair of ASQ's Statistics Division, chair of the Web Services Committee for ASQ's Division Affairs Council, and program chair for the Winter Simulation Conference. He is an author of the ASQ's Statistics Division blog. He was a co-chair of The Institute for Continual Quality Improvement, which is a joint conference with the World Conference on Quality and Improvement. He is a certified Six Sigma Black Belt and a registered professional engineer in the State of Ohio.

Gordon earned his master's degree in industrial engineering in 1965 from the University of Southern California and his Ph.D. in industrial and systems engineering from Ohio State in 1968.

## **Member's Moment – Harold (Hal) Moellering**

*Presented by Don Dell on February 1, 2018*

In this evening's Member's Moment, I have the pleasure of presenting Harold (Hal) Moellering, emeritus professor of geography and geodetic science at The Ohio State University. Let me begin by telling you how Hal summarized his scholarly area of Analytical Cartography and Geographic Information Science (AC/GISci):

"AC/GISci can be characterized as the quantitative analysis of spatial data with the goal of developing the analytical/mathematical theory on how a particular phenomenon operates, say, for example the theory of Real and Virtual Maps, spatiotemporal animation, spatial shape analysis, or Spatial Data Infrastructure. These kinds of research are directed towards enhancing and expanding the scientific base of spatial theory. Applications of this spatial theory occur in designing interactive spatial data analysis computer systems, in analytical spatial visualization, or in considering spatial data standards and spatial system interoperability."



**Hal Moellering**

These kinds of foundational problems were addressed by Hal, his research colleagues, and graduate students. His work, along with that of others in the AC/GIS community, makes it possible for us to get to Cleveland, or Calgary, using only our smart phones!

Hal was born in Ft. Wayne, Ind. He attended elementary and high school there and went on to Valparaiso University for his BA degree in geography – not too surprising since his mother was a Valpo alum. From there he went to Wayne State for an MA and then on to the University of Michigan for his PhD (in 1973). He joined the faculty of the Department of Geography at OSU in the autumn of 1973, where, in 1974, he taught the first course at OSU on GIS. Hal moved through the ranks and became a full professor in 1984. Since 1975, he has also held a courtesy appointment in Geodetic Sciences and Surveying. He retired from OSU in 2005.

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## **Member's Moment – Harold (Hal) Moellering**

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In the course of his academic career, Hal authored more than 150 major publications (and countless other reports, proceedings, abstracts, etc.). His research has been supported by numerous grants from such agencies as NSF, NASA, and the U.S. Geological Survey. Hal was a visiting research scholar/faculty member at such places as the U.S. Geological Survey National Mapping Division, Oregon State University, and the Centre for Spatial information Systems in Canberra, Australia.

In 1982, he founded, chaired, and was principal investigator of the National Committee for Digital Cartographic Data Standards. Over a five-year period, he led four working groups of about 50 people to develop the national Spatial Data Transfer Standard (SDTS). For his leadership in this effort, he was awarded the U.S.G.S. John Wesley Powell Award in 1988 and three other national and international awards.

In 1986, he was part of a group of faculty at OSU who wrote a proposal to NASA that resulted in a five-year, \$5 million grant to develop a NASA Center for the Commercialization of Space. Within that scientific milieu, he led the Spatial Data Display Project that conducted research in the real-time interactive true 3-D stereoscopic display of spatial surfaces. During that time, he and a colleague developed a new process of analytical visualization of spatial surfaces that resulted in the awarding of two U.S. patents in 1991 and 1994.

He founded and chaired an International Cartographic Association Commission on Spatial Data Standards that initially investigated all national spatial data transfer standards in the world and later all of the national spatial metadata standards in the world. This work, over an 18-year time period, resulted in three ICA books, the most notable being *World Spatial Metadata Standards* published in 2005. For these and other continuing efforts, he was made an ICA Fellow at the 2003 ICC meetings in Durban, South Africa. More recently, in 2017 his academic and ICA colleagues organized a special tribute session to honor his career in the spatial sciences at the July 2017 International Cartographic Congress meetings in Washington.

So, those are “the facts” – but let me tell you a bit about the man.

One of Hal’s passions is vocal music. He tells me that in grade school he was “drafted” to sing in the church choir and he has continued such sacred choral singing ever since – a total of some 65 years now! Backpacking was also a passion for Hal in the early part of his career. He set and achieved difficult goals, such as hiking Long’s Peak (14,256 ft.) in 1976 and Mount Fuji the weekend before the 1980 ICC meeting in Tokyo with no acclimation to altitude and on nine hours jet lag. In 1983, he drove the Alaska Highway to visit some friends there, and in 1985 took a 12-day Sierra Club float trip through the Grand Canyon.

Another favorite winter activity is cross-country skiing. Winter 1978 was particularly snowy in Columbus. Hal saw this as an opportunity to take up cross-country skiing. He set himself a goal of eventually reaching 100 miles of such skiing in a single winter season in Columbus. He finally achieved that goal in 2013-14 at the age of 72.

Hal and Elizabeth Hart have been together for 35 years. Daughter Jessica and her husband have three children: Daniel (21), Alex (19), and Claire (14). Liz has accompanied Hal on many of his trips to international conferences, including locations such as Paris, Stockholm, Ottawa and Moscow.

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## **Member's Moment – Harold (Hal) Moellering**

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In addition to his academic pursuits, Hal is an avid fan of Chamber Music Columbus and of occasional wine tasting. In 1999, he was awarded the Valparaiso University Alumni Service Award for leading the effort to obtain the donation of a full suite of GIS software systems for the Valparaiso Geography Department. In addition, he has supported that department through the establishment of an endowed fund to support speakers and student projects. Locally, he is a supporter of Faith Mission and other local charities and of Trinity Lutheran Seminary, where he established an endowment for students of sacred music.

So, as you encounter Hal, ask him about some of these things, but don't ask about the difference between real and virtual maps – the answer is complicated!

## **President's Message: Updates from the International Association of Torch Clubs**

The 2018 IATC Convention will be hosted by the San Antonio Torch Club under the slogan "Carry the Torch to San Antonio." There has been little information shared to date since the San Antonio Club volunteered to move its schedule up by a year after the Erie Torch Club was forced to abandon its plans to host the 2018 convention during the leadership crisis at IATC. San Antonio was saddled with a lot of responsibility with little time to prepare.

The 2018 convention will be held at the Menger Hotel from June 21-23. The hotel is about a block away from the restaurants and shops of the famous "Riverwalk" and a short walk from the Alamo. The club's Torch convention chair, Bruce Flohr, is putting together brochures and will be forwarding them to me for distribution at our meeting. Several of our club's board members plan to attend the convention, so consider joining us for an interesting and educational adventure.

The IATC Board shared a detailed statement describing the issues that surfaced last year with the IATC Board and officers, the causes, and path forward to resolution. The statement is very honest, succinct, and professionally written, and I believe shows the influence of our new management company, OMG. The early roots of the problems were associated with disagreement over the financing of Project Century, a lead-up to the centennial in six years of Torch's founding. Strong personalities led to the resignations of the past president and vice president/president-elect, resulting in a leadership vacuum along with disunity and distrust, which continued through the nomination and election process. The election of George Conklin as vice president and, shortly thereafter, his promotion to president after the current president resigned led to further disunity. This was demonstrated by multiple board member resignations in October.

OMG is doing a full review and revision of the IATC policies, procedures, and bylaws to provide a foundation for future transparency and success. The IATC Board will be fully accountable to the membership and provide reports on progress with OMG's reviews. (Please send an email message to me or see me at the meeting to see the full statement from the IATC Board.)



**Rich Davis**

## Responding to the Evite from Secretary Seelbach

Club secretary Thom Seelbach has sent you via electronic mail an Evite to attend the Torch Club meeting on March 1. Respond promptly to the Evite so he will have an accurate count of meals needed. You also may respond to him at tseelbach@gmail.com or (614) 457-5103.

The directions for responding to the Evite are:

1. After you click on the email from Evite, it will bring up a new window on the Evite website. You must click your response in this new window for Evite to register your response.
2. The guest count is the actual number of attendees. If only you are attending, the count will be 1. The cost for a guest to attend the meeting and dinner is \$30.

## Schedule of Torch Club speakers and their papers for 2017-18

Thursday, October 5, 2017

**"History of the OSU College of Optometry"** by Robert Newcomb

Thursday, November 2, 2017

**"Cuba Then and Now: A Contemporary Perspective"** by Tricia Herban

Thursday, December 7, 2017

**Chamber Music Connection String Quartet**

Thursday, January 4, 2018

**"Sicily: So Much More"** by Christina Atzberger

Thursday, February 1, 2018

**"Antarctica, Past and Present"** by Thomas Baughman

Thursday, March 1, 2018

**"Improving Performance Using an Integrated Theory of Constraints, Six Sigma and Lean"** by Gordon Clark

Thursday, April 5, 2018

**"The Evolution of Italian and English Gardens"** by Nancy Verber

Thursday, May 3, 2018

**"A Few of My Favorite Things: A Piano Recital"** by Thomas Seelbach and the Faculty Club's Steinway

### **Torch Club's monthly meeting agenda**

4:30-5:30 p.m. Board of Directors meeting

5:30-6:15 p.m. Cocktails and conversation

6:15-6:35 p.m. Business matters

6:35-7:30 p.m. Speaker presents Torch paper

7:30-8:45 p.m. Dinner and table discussion

Meetings are conducted in The Ohio State University Faculty Club, 181 S. Oval Drive; (614) 292-2262.

## Board of Directors of Torch Club of Columbus, Ohio, for 2017-18

President – Rich Davis

President-elect – Tom Costantiello

Immediate Past President – Jeff Caswell

Secretary – Thom Seelbach

Assistant Secretary – Susan W. Smith

Treasurer – Howard Gauthier

Assistant Treasurer – Susan Tilgner

Fellowship Chair – Violet Meek

Membership Chair – Dorothy Driskell

Nominating Chair – Jeff Caswell

Newsletter Editor – Steve Sterrett

Director-at-Large Violet Meek (2018)

Director-at-Large Deborah Stevens (2018)

Director-at-Large Dorothy Driskell (2019)

Director-at-Large Richard Meyer (2019)