



NCSLI Twin Cities Meeting Hosted by Carl Zeiss Industrial Metrology, LLC. at Maple Grove Community Center.

●●● REGIONAL NEWS

Twin Cities



Cory Otto
cory.otto@bsci.com

The NCSL International Twin Cities Region held its most recent meeting on a beautiful spring day at the Maple Grove Community Center located in Maple Grove, Minnesota. The

May 9, 2017 meeting was hosted by Carl Zeiss Industrial Metrology, LLC.

The day started with a transition of Section Coordinators from Corey Garbers (3M) to Cory Otto (Boston Scientific). Corey was recognized and thanked for his contributions to NCSL International and the Twin Cities Region.

Afterwards, attendees were welcomed with a round of Minnesota trivia. Minnesota's state fish is the walleye (*Sander vitreus*) and with the May 13th "fishing opener" just around the corner, it seemed appropriate to pose the question, "What is the heaviest walleye caught in Minnesota history?" If you are interested, the answer appears at the end of this article.

Next up was a moment of appreciation and recognition of our veterans in honor of the upcoming Memorial Day holiday and a note on World Metrology Day.

In the spirit of continuous improvement, the steering committee chose to switch things up a little for their introductions. Historically, section steering committee introductions consist of a brief, "Hi, I am <insert name here> and I work for <insert company name here>." This time, each steering committee member was asked to introduce themselves by answering the following questions:

1. How did you get into Metrology?
2. What past role(s) have you held?
3. If you could pass along one piece of information to someone new in our field, what would it be?
4. Where are you from?
5. What is something interesting about you?

This minor change set the tone for the day's knowledge sharing activities, interactive discussions, and fun.

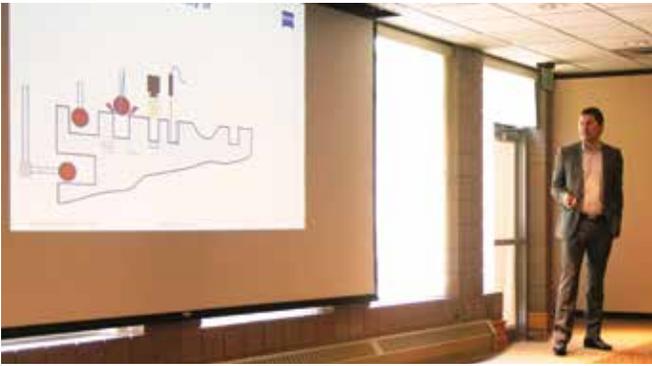
The host presentation for the meeting was delivered by Al Chaisen, Director of Aftermarket at Carl Zeiss Industrial Metrology, LLC. Al introduced attendees to Zeiss's history, capabilities, and foundation.



Al Chaisen, Director of Aftermarket at Carl Zeiss Industrial Metrology, LLC.



Satish Pragalsingh, Engineering Manager of the CRHF Physical and Dimensional Calibration Lab at Medtronic.



Dr. Marcin B. Bauza, Director of New Technology and Innovation at Carl Zeiss Industrial Metrology, LLC.



Glenn Knight, Carl Zeiss; Shawn Mason, Medtronic; Walter Nowocin, Medtronic.

Following Al's presentation, attendees heard from Satish Pragalsingh, Engineering Manager of the CRHF Physical and Dimensional Calibration Lab at Medtronic on the topic of, "How Do We Solve the Problem of Manufacturer's Specifications?" Satish gave voice to the challenges many face balancing equipment capabilities, customer demands, and calibration requirements. Satish provided alternative methods to using manufacturer's specifications (e.g. using published standards, memos from the manufacturer, deriving specifications mathematically, conducting measurement capabilities studies, etc.). In the end, it was clear that this is not a straightforward topic and it is one that requires partnering with equipment owners and clear communication.

After a break for refreshments and networking, Dr. Marcin B. Bauza, Director of New Technology and Innovation at Carl Zeiss Industrial Metrology, LLC presented on the topic of, "Metrology of Parts Made Using Additive Processes." Dr. Bauza illustrated the differences between subtractive and additive manufacturing. Then, he discussed the challenges many face with measuring product made using additive processes by describing a case study that quantified the differences in measurements of a NIST artifact as built, after heat treat, and after wire EDM. Dr. Bauza finished his presentation by introducing computed tomography and its many benefits in this measurement application.

Before lunch, Paul Hanssen, President of WorkPlace Training educated attendees on the benefits of becoming a member of NCSL International and the upcoming annual conference at the Gaylord National Convention Center in National Harbor, Maryland from August 12 to 17, 2017.

Upon returning from lunch, Jane McDougall, Quality Manager at Precision Repair & Calibration moderated a panel discussion on the current trends in regulated

industries. Attendees were able to fend off the inevitable post-lunch drowsiness with a flurry of back and forth questions and answers with panelists Shawn Mason (Sr. Hardware Calibration Specialist at Medtronic) speaking for ISO 17025, Walter Nowocin (Sr. Engineering Manager at Medtronic) speaking for ISO 13485, and Glenn Knight (Metrologist at Carl Zeiss Industrial Metrology, LLC) speaking for ISO 9000.

The final presentation for the day was unique in that a subject matter expert was not brought in to talk about the topic. Instead, a member of the region wanted to pose a question to the attendees and have an interactive dialogue. The topic, titled, "Here's how we calibrate that... how do you? Conductivity and pH" was presented by Cory Otto, Metrology Manager at Boston Scientific. The presentation described conductivity and pH, their measurement applications, how Boston Scientific calibrates this equipment, the calibration challenges faced, and then asked attendees how they perform these calibrations. After much valuable discussion, a consensus was reached that this is not a straightforward measurement and that there is room for standardization in this area in the future.

The meeting wrapped up with a round of door prizes donated by the steering committee members.

The Twin Cities Region would like to offer a sincere thanks to Mark O'Connell, Site Manager for Metrology Services at Carl Zeiss Industrial Metrology, LLC for sponsoring the meeting, coordinating the refreshments and venue, arranging for speakers from Zeiss, and for ensuring the day went smoothly.

Did you keep reading to find out the answer to the trivia question earlier in this article? If so, the heaviest walleye caught in Minnesota history weighed 17 pounds, 8 ounces and was caught on May 13, 1979 on the Seagull River at Saganaga Lake.