

ASQ Section 305—New Haven

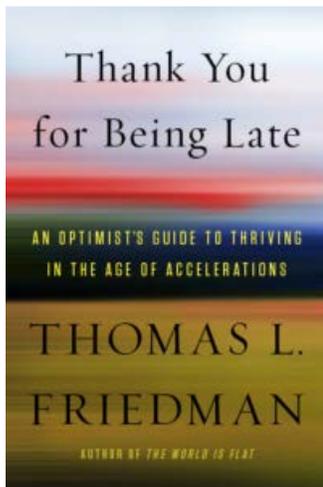
MONTHLY MEMBER NEWSLETTER

MARCH 2017 | VOLUME 1, ISSUE 1

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Special Interest Articles

Book Review *Thank You for Being Late - An Optimist Guide to Thriving in the Age of Acceleration* by New York Times columnist Thomas Freidman, (2016).



Highlights

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The Global Voice of Quality™

Upcoming Program

3D PRINTING ACCOMPLISHMENTS WITH UNIVERSITY OF NEW HAVEN'S DR. MARIA-ISABEL CARNASCIALI



This month our speaker Dr. Maria-Isabel Carnasciali will discuss some innovative accomplishments in 3D printing. Dr. Carnasciali and her student-staff will provide an overview of 3D printing technology and the 3D printing capabilities available on UNH's campus. If time permits, they will provide training on how to process a part drawn in CAD software to be 3D printed.

Maria-Isabel Carnasciali joined the University of New Haven's Engineering faculty in 2010. She received her Ph.D. from Georgia Tech in 2008 specializing in the area of thermal-fluid sciences, and a B.S. in Engineering from MIT's Mechanical Engineering Program. Her interest and involvement with 3D printing goes back to her thesis work to

quantify the frictional forces associated with non-coalescing drops which involved manufacturing of tiny cantilever beams with the use of Stereolithography – a 3D printing method. At UNH, Dr. Carnasciali now serves as Director to the Prototyping & Ideation Laboratories, including the new University Makerspace

MEETING PLACE AND CONTACTS

Date: March 22, 2017

Place: University of New Haven, Makerspace – Buckman Hall, Rm 104

Time: Networking: 5:30;

Dinner: 6:00; Speaker: 7:00

Dinner: Pizza; **Cost:** \$15.00

ONLINE:

WWW.ASQNEWHAVEN.ORG

Jay Krishnamoorthy (203)589-5350

or email: JAYK_2@COMCAST.NET

Bill Folsom: (203) 402-9111 or email:

WILLIAM.FOLSOM@DCMA.MIL

DIRECTIONS TO UNH

From South: Take I-95 to exit 43, turn left off the ramp onto Campbell Ave. Continue to Ruden St and take a left. Near the top of the hill take a right into the commuter parking lot, look for available parking. Buckman Hall is on the east side of Maxcy Quad.

From North: Turn right off Exit 43 onto First Ave and follow until to Campbell Ave, turn right then follow above directions.

Message from the Chair Book Review

New York Times columnist Thomas L. Friedman's latest book ***Thank You for Being Late: An Optimist's Guide to Thriving in the Age of Accelerations*** (2016) meets all of his great national reviews. If you need some catching up about what's going on around the world in technology, automation, computers, with the advances in telecommunication, networking and the internet I suggest you read his book. I love stuff like this as it makes me feel smart and up to date with what's happening all around.

Friedman shows that we have entered an age of dazed acceleration and explains how to keep up. Due to a massive increase in computing power, climbers atop Mount Everest enjoy excellent cell-phone service and self-driving cars are taking to the roads. He explains as a remnant from an earlier book *The World is Flat* (2005) how fast the global community has developed with an explosion of economic interdependency with new riches while in the midst of growing debt burdens. With these dramatic changes he keeps climate change enthusiasts in vogue citing how as carbon levels have risen and we as a world must strive for some control or else we're done. He reasons for a value in bringing things together, putting foreign policy beside climate change in a coherent narrative that's honest for why the world is the way it is, without miracles.

His main argument is that simultaneous accelerations in the Market, Mother Nature and Moore's law created an "Age of Accelerations," in which people who feel lost out there must reflect rather than panic. Friedman opens with highly technical discussions of each of his accelerations, with examples that include solar-powered waste compactors, IOT pedometer-wearing cows, and geopolitics. He tells us that while the global economy may be gobbling up many American jobs any movement to hurt the cheap labor markets like China and India would devastate our own economy. As we've become so interdependent with each other with almost complete industries being replaced we would be at a

loss to find time for a quick recovery. He then offers personal and policy recommendations for coping with accelerations, such as self-motivation, a single-payer health care system, lifelong learning, and encouraging more people to follow the Golden Rule.

In one of his many stories he talks about this professor of nanotechnology who lives in Israel. Dr. Hossam Haick, he says is a Christian Arab Israeli who teaches in Israel this online course in English and in Arabic. When putting his course together Haick found out how difficult a task he had accepted. One of the hardest aspects was translating all the cutting-edge technical terms into a common Arabic dialect. At his first course announcement about 4,800 people signed up for the Arabic version. They included scholars, researchers, and businesspeople from all over the Middle East. Friedman talks about how Haick has so many Muslim students who can't wait to hear whatever he has to say disregarding all of their formal religious apprehensions.

This story reminds me of another true account in a book called, *Son Of Hamas*, (2010) where a young Islamic Hamas terrorist Mosab Hassan Yousef (author) is captured by Israeli intelligence and turned to support them on their goal to assure a secure Israel for all. He helps them by trying to stop Islamic terrorist attacks by talking with suicide bombers to give up their cause, befriending them as based by his family's Hamas reputation. He continues to do good works for both the Jews and Palestinians to assure peace, praising his love for his country Israel. But here's the kicker, he joins up with this group of Christians and falls in love with the whole Jesus story and converts to Christianity. How awesome is that?

Friedman offers practical suggestions for fostering moral innovation and a commitment to the common good. He boldly prescribes a redesign of our workplaces, politics, geopolitics, ethics, and communities with a master class in explaining without losing us in the info shuffle.

Larry Spinello, Section Chair, ASQNHS



February's Program Highlights

DOCUMENTING PROCESS—WHEN DO YOU STOP? WITH ERIC NOACK

Last month Eric Noack gave us an interesting discussion about Lean vs. Compliance and how to make the details of Lean tools complement the eloquence of medical compliance procedures and work instructions. He started off explaining how he and his place of work, Orchid Orthopedic Solutions of Milford, handle Lean. He talked about some of their accomplishments with years in manufacturing, their matching processes and screw machine operations. He expressed how it's everyone's concern to assure safety and efficiency throughout the workplace.

He spoke about the numerous regulations and specifications they need to follow under FDA, FAA and DoD for compliance to work that comes at a hefty cost. He remarked that there are so many laws that cover their product lines, so it's important that they satisfy all audits with Lean in mind. He stated that to do this they needed a well written and easily understood system of standard work. Procedures that are efficient, encompass all of the requirements, and ensure the work is done right the first time. Too often workers would be scratching their heads trying to interpret the regulations and standards and this was not productive.

Safety always is an issue for all manufacturers to nail down as it has a long reaching effect not just for the workers, but the users of their products. The product must have built in reliability to assure a long product life. Medical facilities would turn away from your company if what you make is inadequate, causing more problems down the road for health and costs. When putting together a good standard work procedure, use all the tools you can to get the job done. Make sure you rule out vagueness while capitalizing on efficiency. Ensure there is no room for interpretations as different interpretations can be paramount to failure.

Erick told us how they used all sorts of pictures and videos that described the functions and processes of the equipment and subtle operations. These seemingly simple concepts took away a lot of the doubt in understanding the jobs and the details at hand. Videos are a great tool for learning. Some expressions like 'stone the plate' as written often falls short but, by showing this process with pictures or in a video, any misinterpretation is removed. To assure videos are amended in the instruction procedures via computer screens, updates would follow some basic professional camera angles. Like with the written procedure the better the video the better one's understanding of the job.

He then talked about some of the Lean measures they have applied, such as TAKT—a method of recording the time it takes to do each task for a specific job. TAKT time improves the expected outcome vs time acting as an excellent management tool to see everything at a glance, as the way the process should be done. By assuring proper steps are understood and taken, it cuts down on process time which reduces overall manufacturing costs. He explained further on what Orchid is doing to reduce waste, as well as time, with safety always in the forefront and where every day is a chance to learn something new.





Membership Update

WELCOME NEW MEMBERS!

AMY AQUILINO

ROBERTO BALLESTER

DANA BOCHAN

MICHAEL BRADSHAW

HARRY E. BROOKS

ROB BROPHY

ANTHONY CAVALLARO

DAVID CHABER

MARK CRAWFORD

SHIVANI DESAI

JENNIFER E. DESMARAIS

LINA FRAZER

SCOTT HAEFFNER

TANIA HINDS

THOMAS HULL

THOMAS KAVANAGH

AJITH KUMAR ALLAM

DAVID LONG

WILLIAM LOCASCIO

JOHN MALEK

MICHELLE A. MALONE

LYNN MATHEWS-FROEHLICH

DAVID MICHAELS

JADITYA OZARKAR

RYAN O'CONNOR

JOHN H. PIZZONIA

KEITH PORTER

JASON ROMAN

ROCIO SANTANA VILLA

J DEANNA SCIACCA

JUSTIN SCHLAUDER

RICHARD G. STINE

STACY ST. JOHN

ANDREW STILLSON

NINAD TAMBE

RICHARD TOMER

AMBER WELLS

ELIZABETH WONG

KYLE ZUKAUSKAS

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FACEBOOK!**
ASQ New Haven



OUR MISSION STATEMENT

*PROVIDE
COMMUNICATION,
NETWORKING, AND
DEVELOPMENT
OPPORTUNITIES
TO SUPPORT
KNOWLEDGE,
SKILLS AND
ABILITIES IN
QUALITY
PRINCIPLES AND
CONCEPTS.*



Program Schedule 2016-2017

DATE	TOPIC	SPEAKER/ FACILITATOR	PLACE	COMMENTS
22-MAR 17	3D PRINTING - UNH	DR. MARIA-ISABEL CARNASCIALI, PH.D	UNIVERSITY OF NEW HAVEN, WEST HAVEN CT	JOINT WITH APICS NEW HAVEN
12-APR 17	LEVERAGING LEAN LOGISTICS TO LEAD IN THE 21ST CENTURY	MIKE FORD	HONEYWELL, NORTHFORD CT	JOINT WITH SOUTHERN SECTION
17-MAY 16	PIEPER-OLSON VETERINARY HOSPITAL TOUR	HOSPITAL TOUR	PIEPER-OLSON VETERINARY HOSPITAL, MIDDLETOWN, CT	JOINT WITH APICS NEW HAVEN

Attendee Gifts!!

This month's ASQ New Haven attendee gift will be the ASQ logo Pen, a real helpful implement for home and at work to assist each day of your Quality conscious life. We hope this gift choice will be appreciated by all.



Job Opportunities

QUALITY ENGINEER WANTED:

QUALIFICATIONS: The candidate must have experience developing quality systems for small precision manufactured components. Must have excellent verbal and written communication skill.

ADDITIONAL ATTRIBUTES/CAPABILITIES:

- Must be a US Citizen due to government contracts.
- Develops, implements, manages and integrates a Quality Management System.
- Initiates and implements quality improvement activities as appropriate to raise the performance of the company's products and processes.
- Help to train employees.
- Serves as a quality control resource for problem identification, resolution, loss reporting and continuous improvement.
- Supports engineering efforts by participating in development projects.
- Designs, implements and documents procedures.
- Establishes and implements metrics for monitoring system effectiveness.
- Performs root-cause analysis and other problem solving activities to identify effective corrective actions and process improvements.
- Develops quality planning methods.
- Develops process certification standards and assist in process certification.
- Reviews customers purchase orders, contracts and change requests and ensure that the necessary criteria and provisions are included in quality and process plans.
- Oversees calibration and testing programs.
- Reports to management on quality issues, trends and losses.
- Participates in internal and external quality audits.
- Interfaces with supplier and customer quality representatives concerning quality problems and assure that effective corrective action is implemented.
- Experienced to handle all ISO Audit and upgrades with minimum direct oversight.
- Leads process quality improvements (working with Process Engineering) through the development and implementation of process controls, sampling systems, and SPC. Develops statistical process control systems. Capable of preparing customer PPAP needs.
- Periodic reviews of FMEA and Control Plans to ensure Risk Management and Process Controls are embedded in the manufacturing processes.
- Bachelor's degree in mechanical engineering, electrical engineering, manufacturing engineering or business administration, or equivalent number of years of experience.
- Ten (10) years of experience in QA systems implementation and management.

RESPOND TO: Ditron Inc.,

Fax: 1-845-227-2872

E-mail: humanresources@ditroninc.com



RELIABILITY ENGINEER WANTED

Job Code/Title: E1592: Reliability Engineer (Req ID: 378657BR)

Job Description: The Sikorsky Aircraft Reliability & Maintainability (R&M) group is looking for an experienced Engineer to provide technical support for the S92 and S76 Helicopter programs. The successful candidate will be responsible for planning and implementing R&M program tasks to ensure design integrity and safety requirements are in alignment with program and customer expectations. The individual will work as a member of an Integrated Product Team to influence design, manage root cause failure analysis and corrective action activities, quantify / assess R&M field performance, prepare Failure Mode Effects and Criticality Analysis (FMECA) and Fault Tree Analysis (FTA) in support of safety investigations, track Reliability Growth, prepare Maintainability Timeline evaluations, assessing Direct Maintenance Costs (DMC) impacts, and support product improvement proposal activities.

Basic Qualifications:

- Experience in interpreting operation sheet instructions, engineering drawings and specifications as well as familiarity with Aircraft Certification requirements related to System Safety is preferred.
- Knowledge of aircraft and maintenance informational databases as well as technical manuals and maintenance procedures is also preferred.
- As necessary, proposes design, process and/or maintenance plan changes to improve system Reliability & Maintainability and DMC attributes.
- A course of study with emphasis on numerical analysis and statistics, with knowledge of aeronautical systems, is desired.
- Excellent oral and written communication skills and experience with MS Office are required.

- Co-op or Intern experience in appropriate technical field will be given special consideration.
- Must be a US citizen or Green Card holder.
- Ability to obtain Secret security clearance is desired, but is not a requirement.
- Typical Minimums: Bachelors degree from an accredited college in a related discipline, or equivalent experience/combined education, with 2 years of professional experience; or no experience required with a related Masters degree. Considered experienced, but still a learner.
- Desired skills: Knowledge and experience with statistical concepts and analysis.
- Experience with reliability FRACAS (Failure Reporting, Analysis, and Corrective Action System) and data mining.
- Strong interpersonal skills and ability to build effective working relationships
- Excellent oral and written communication skills and an ability to perform oral presentations in front of large groups.

Abstract Points:

Security Clearance: None

LMCareers Business Unit: ESS6500 RMS

Business Area: Rotary and Mission Systems

Program: S92 / S76

Dept: 4650CSM:SAS Eng Commercial (CT)

Reports To Manager: William Nesbitt

Recruiter: Christian Zola

Job Class: Aeronautical Engineering

Level/Grade: E2H

Rate Range: 61100 - 101800

Job Category: Experienced Professional

Work Location: 116 Quarry Rd, Trumbull, CT

Relocation/Housing Stipend Available: Possible

Req Type: Full-Time

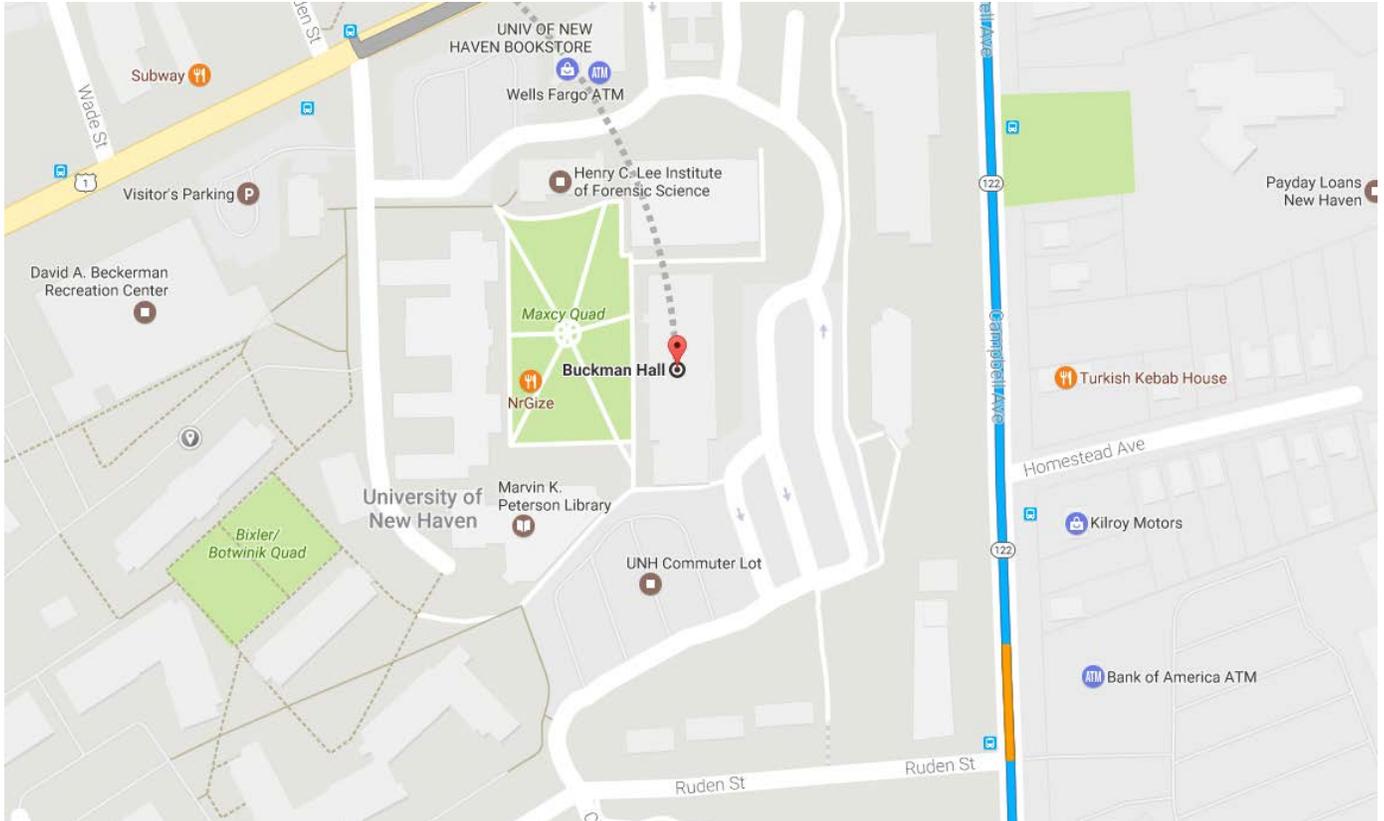
Shift: First

EEO: Lockheed Martin is an Equal

Opportunity/Affirmative Action Employer.

https://lmpeople.lmco.com/functions/apply_for_job/apply_for_job.aspx





University of New Haven and Buckman Hall...Meeting will be in Room 104.

SECTION LEADERSHIP COMMITTEE

Section Chair and Newsletter Chair:

Lawrence Spinello (203) 248-4085

Vice Chair: Diego Dussan (203) 648-7583

**NEQC Rep, Treasurer, Nominating
and Past Chair DRD:**

Bill Folsom (203) 402-9147

Audit and Placement Chair:

Gene Contardi (203) 795-6914

Secretary and Membership Chair:

Suzette Herrick (774)239-6743

**Web Chair, Programs
and Education Chair:**

Jay Krishnamoorthy (203)589-5350

Certification

Frank Tyszka and Art Bystryk

