



Crane Certification Association of America

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**The CCAA is going to
Tulsa, OK**

**CCAA 2018 Spring
Educational Conference
in Tulsa, OK
March 18 - 20, 2018**

Crosby®

**BRADEN
CARCO
Gearmatic**

PACCAR WINCH

CCAA The Future of Crane Safety



Letter from the President

By: John Davis P.E.
Davis Engineering

Fellow Members and Friends,

I count it an honor to serve as your president. After having served as CCAA's Founding Secretary more than thirty years ago, I am pleased to be a part of the current leadership team.

CCAA was founded with the idea of joining together to be the best that we can be in our profession and to serve the crane industry with wisdom and integrity. In the intervening years we have faced many organizational challenges and we have met these challenges with dedication and perseverance. As the business climate has changed with the proliferation of electronic communication, the internet, and social media, we find ourselves facing yet another challenge. We must address these changes with innovation and energetic cooperation.

During the past several years, President Donald O'Rourke and Treasurer Bruce MacPherson have worked diligently to institute electronic management systems, create better means of communication, and improve the CCAA website. Our job now and in the future is to work together to make these efforts bear fruit and strengthen CCAA. I ask each member to contribute time and effort to this work, not only when asked, but on your own initiative.

Among the many efforts that must be made is the revision and release of the Certified Crane Surveyor (CCS) program. Several of our members have been working diligently to revise the examinations and make the management of the program more effective. In the modern business climate we believe it is necessary to make this program available by means of the internet and we are working to make that concept a reality. We believe this effort is necessary to grow our membership and provide a non-dues source of revenue.

Much effort has been expended to develop effective Educational Conferences which draw a significant response from the crane surveyor community. In order to support these programs, we are expanding our marketing efforts into the social media arena. Jim Jota is heading up this work and needs input from all of us to keep the CCAA name prominently displayed. Please use LinkedIn and Facebook to join in the conversations which will elevate the awareness of CCAA in the crane community.

The CCAA is your organization and your enthusiastic support is vital to its continued success. I urge you to participate and spread the word.

Sincerely,
John W. Davis, PE

CCAA 2018 SPRING EDUCATIONAL CONFERENCE IN TULSA, OK

Where?

Field trips are scheduled to visit PACCAR Winch and Crosby manufacturing plants.



Where are we staying?

100 East Second Street
Tulsa, Oklahoma, USA, 74103



*Stay
tuned for
more
details*



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ATLANTIC CRANE INSPECTION SERVICES

Monday Morning Break Sponsor



Monday Lunch Sponsor



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CLINT ROSS AND BILL TIBBETT - PACCAR WINCH

Attendees will be broken up in two groups

- About PACCAR Winch
 - SMT Introduction and Welcome (Brennan, Mike, Curt, Jacob, Chew)
 - Instructor Introduction
 - Manufacturing Marvels Video
 - Winch 101 Video
 - Company Product Overview (Flyer handout)
 - Agenda review & Housekeeping (Restrooms, refreshments, etc.)
 - Safety Orientation (Sam)
- Winch Education & Troubleshooting
 - Main parts from Day 1 of Sales and Service School
- Winch Breakdown
 - Explain and perform a teardown of a CH or PD hoist
 - Highlight the points that make BRADEN better
- Showroom & Plant Tour
- R&D Lab
 - Tour facility
 - Allow crane operators to test a hoist
 - Set-up a failure – see if they know a root cause – Improper flow, lack of pressure
 - Discuss lift & pull tests
- Winch Engineering
 - Engineering covers what they do and who they are as team
 - ⇒ Definitely highlight combined length of service, and tenure of top engineers
 - ⇒ Discuss our quality check on all parts, purchased and manufactured
 - ⇒ Describe how we engage directly with our customers and their engineers
 - ⇒ Testing & Service requirements on all our winches and hoists
 - Latest crane related products – PD10/15 and CH10/12.5
 - Open forum to ask questions
- Wrap-up



DANNY BISHOP - THE CROSBY GROUP, LLC

Responsible for managing and providing direction for The Crosby Group's worldwide product training and value added offerings. Crosby offers product training on safe and proper use of Crosby products in many languages worldwide. Since the inception of Crosby training in 1991, over 350,000 individuals have attended a Crosby training seminar. Have personally performed over 750 seminars on basic/advanced rigging topics, block application and heavy lift topics.

Education: Bachelor of Science in Business Administration with a major in Marketing from the University of Tulsa. Numerous engineering courses completed.

Personal:

- Employed by The Crosby Group since 1981. Has held numerous positions at Crosby in manufacturing, special engineered products, sales and training.
- Past Board Chairman of ACRP (Association of Crane and Rigging Professionals). Still serves on ACRP board of directors.
- Currently serves as a Commissioner for NCCCO (National Commission for the Certification of Crane Operators).
- Currently serves on the NCCCO Riggers Task Force
- Currently serves on the NWSA (National Wireless Safety Alliance) Board of Governors

PRESENTATION TITLE

Crosby Crane Block Hook and Wedge Socket Inspection Criteria

PRESENTATION SUMMARY

This presentation will concentrate on Crosby recommendations when inspecting Crane Block hooks and wedge sockets in the field. Topics discussed will include how much wear is allowed, product deformation, cracks, nicks, gouges, modifications and proper function. Inspection frequency of both the hooks and the wedge sockets will be shared, plus when NDT testing is recommended. Time will also be devoted to new products available when selecting future replacement hooks and wedge sockets.



JOHN GROCE, P.E.— WIRECO WORLDGROUP

John has worked in the wire rope industry for over 21 years as a member of WireCo WorldGroup's Corporate Product Engineering Department. He has worked with the design, development, manufacture, and testing of various wire, synthetic and hybrid ropes and related fabricated lifting products. He has participated on various industry committees charged with developing and maintaining standards, manufacturing specifications, and end user reference documents. He is a voting member on the ASME B30.30 Ropes subcommittee charged with developing a new standard for crane rope usage, maintenance, and retirement criteria. His experience covers many different wire rope application areas which allows him to be able to provide technical assistance to WireCo WorldGroup customers across multiple market sectors. Although he has traveled to many parts of the world during his career, currently, John's primary focus is as the North American engineering contact for Casar, Oliveira, and Union crane ropes.

PRESENTATION TITLE

Wire Rope Inspection Requirements and Regulatory Conflicts

PRESENTATION SUMMARY

Wire rope looks deceptively simple, it's anything but! The same goes for the regulatory inspection requirements of wire rope. John will separate the wheat from the chafe for us, and provide an explanation of wire rope inspection requirements and their conflicts. This is essential information needed to ensure that, we as inspectors, are protecting both ourselves and our clients. As a result of John membership on the ASME 30.30 committee, he's uniquely positioned to provide a glimpse into the future of wire rope regulations and specifications.



DONALD O'ROURKE - NATIONAL CRANE SERVICE

Donald O'Rourke is the President and Owner of National Crane Service, the second generation owner of a crane inspection company that was started by his father, Dennis O'Rourke in 1981. Donald has worked in the crane industry for over 25 years. He has extensive experience with mobile cranes, overhead cranes, boat hoists, aerial lifts, and other material handling equipment. Boat hoist inspection/testing/repair/refurbishing is a specialty of his. Donald's work load includes inspections, load tests, repairs, maintenance, troubleshooting, and training.

PRESENTATION TITLE

Crane Inspection Classifications? What's does the end crane user expect when their crane is inspected?

PRESENTATION SUMMARY

This is a first in a series of presentations to define the term Crane Inspection and develop inspection classifications. To assure crane owners or end users know what they are buying and crane inspectors know what they are quoting, someone should define a "baseline" inspection for each of the four types of inspections and the Crane Certification Association of America is the perfect group to establish this standard. Crane inspections can generally be grouped into one of four types, 1) Maintenance inspections, 2) Condition inspections, 3 Pre-purchase inspections and 4) Post Repair inspections. We will discuss these different types of inspections. How OSHA, ASME, and other regulatory agencies help define these inspection classifications. We will discuss what crane owners and end users generally expect and how not defining what type of inspection is being performed can expose you and your company to risk. We will discuss checklist and other important tools to help define the inspection process. We will start the process of defining these crane inspection classifications here and in future presentations.

**DAVID RARAIGH – INTEGRATED EQUIPMENT SERVICES, LLC**

David is the owner of Integrated Equipment Services, LLC located in Pittsburgh, Pennsylvania. He has been an active member of the CCAA since 2011, serves on the CCAA Board of Directors and is currently the chair of the CCAA Business Plan Committee. David is a CCAA Certified Crane Surveyor and NCCCO Certified Crane Inspector with over thirty years of field experience in the overhead crane and hoist service industry. Integrated Equipment Services, LLC offers specialized, overhead crane and hoist services including: Inspection, Field Service, Testing and Training.

PRESENTATION TITLE

Overhead Hoist Limit Switches

PRESENTATION SUMMARY

The hoisting motion of all electric traveling cranes shall be provided with an overtravel limit switch in the hoisting direction. Commonly referred to as the “upper limit”, this final position switch is essential to halting upward travel of the hook block and preventing impact with any part of the trolley/hoist frame.

In addition to the upper limit switch, hoist applications may also employ a combination of position indicating switches for both hoisting and lowering motions. This presentation will discuss applicable regulatory and compliance standards, various types and configurations of switches, operational theory, inspection and testing. Experiences with malfunction and failure modes will be shared.



BRUCE MACPHERSON - CERTIFIED BOOM REPAIR SERVICE NORTHEAST

Bruce studied Restaurant and Hotel Management in college. Almost every time he had a cooking class, he burned the dish. It became clear he should choose a profession with much higher heat..... so for over 35 years he has been managing companies in which welding was an important part of operations. At first it was collision and frame repair of class 8 trucks and heavy equipment. For the last 27 years his company, Certified Boom Repair Service Northeast, has been doing structural repairs to cranes. Bruce has served as a CCAA Board member for 12 years.

In Restaurant Management school Bruce did learn to “count the beans” and was asked to take over Treasurer’s responsibilities in 2015. He also serves as the chairman of the Conference Planning Committee.

PRESENTATION TITLE

Repair Process, Procedure Qualifications, and Repair Documentations “Anatomy of a Welded Repair”

PRESENTATION SUMMARY

A part of Bruce’s responsibility as CCAA Conference Planning Chairman is to read attendee’s conference evaluations and to respond to suggested interests for future content. His Tulsa presentation, “The Anatomy of a Structural Repair to a Crane” developed because of several welding related conference content requests. Bruce will cover problem evaluation, code directives, scope of work, procedure and welder qualifications, and supporting documentation. Hopefully there will be time for Bruce to answer any questions attendees may have.



LARRY DUNVILLE - PRESIDENT OF OVERHEAD CRANE CONSULTING, LLC AND EXECUTIVE DIRECTOR OF CCAA

Larry Dunville is the principle of Overhead Crane Consulting, LLC. After growing Dearborn Crane & Engineering into a national firm with clients like Chrysler, Reliance Steel and Tesla, Larry sold in 2012. Larry's work was recognized through a seat on the board of the Purdue University Technical Assistance Program and the Association of Iron and Steel Technology's Technical Reports Numbers Six and Thirteen. As a leader in the overhead lifting community, Dunville serves as the executive director of the Crane Certification Association of America. He regularly presents on topics such as runway alignment, new cranes in old buildings, establishment of crane inspection standards, and analysis of CMAA duty cycle. Venues includes Boeing, Austal Shipyard, AIST, and CCAA. Larry will be presenting at Modex/Atlanta and AIST/Pittsburg in the Spring of 2017.

Dunville earned a graduate degree from the Harvard Graduate School of Business and holds a bachelor's degree from the University of Notre Dame.

PRESENTATION TITLE

Using the computer in your pocket and free software to drastically simplify the crane inspection process.

PRESENTATION SUMMARY

An iPhone 5 (now 6 generations old) had 1300 times the processing power of the computers used to land the first astronauts on the moon.

A modern cell phone really shouldn't be called a phone at all, it's really a full-blown pocket computer that happens to also be a phone. The modern smart phones can;

Camera

Take great pictures in low light and the zoom in for close-up photos of the problem.

Voice Recorder

Directly record a description of what is in the photo and document the location while attaching the description to the photo. No wondering which photo belongs to which crane the day or week after the inspection.

Dictation

Convert the voice recording of the problem to text with no typing by you.

Legal Documentation

Provide CYA legal documentation through images and dictated recordings, before and after the inspections and before and after the repairs.

Historic Records

Your phone can hold last year's inspection referencing previously identified as a dangerous conditions. Not just last years but the last 10 years, including all past pictures you've taken.

Engineering Library

Your pocket computer can hold all your ANSI/ASME specs, all of OSHA, CMAA 70/74 and 78 and any and every other spec you can think of. It can also include all the highlighting and your notes in the margins on all these documents. Most of all, you can for example search for the word "hook" and in less than a couple seconds, get a list of every single sentence in which the word "hook" is used.

The good news is that you probably already own a pocket computer (any modern smartphone) and the basic software is free. The information, pictures and files easily transfer between your pocket computer, a tablet and either a PC or a Mac.

Maybe the best news is that it's easy to learn and were going to tell you all you need to get started in the next hour.



DENNIS O'ROURKE - NATIONAL CRANE SERVICE

Over fifty years experience in the industrial, maritime, military and construction fields working with heavy equipment and material handling devices. As a safety engineer during this period, I have developed and/or presented over 520 safety-training programs for all representative elements of government and industry. I have also performed 100's of load test and certifications of various cranes.

My responsibilities include; direct the operational and administrative functions of the company and act as senior consultant and training advisor. Also responsible for formulating and presenting crane operator and inspection training programs for mobile - hydraulic, lattice boom, and friction cranes and overhead cranes. As well as, performs crane inspections, load tests, crane maintenance and design, heavy lift consulting, and accident reconstruction investigation. Supervise inspections and testing of cranes. Supervise testing and certification of rigging gear and slings on our test bed fixture.

PRESENTATION TITLE

“Additive Manufacturing” of Hooks- Good Idea? “3D printing in Steel”

PRESENTATION SUMMARY

The process of 3D printing has been around for about 37 years (time flies, fun or not) making toys, pots and other gadgets. However, later equipment's development and ideas about how to use this process for modern production needs are gaining momentum. From engine parts to 88 ton crane hooks, hooks are what concerns me. This “white paper” report will discuss, in plain talk, what a crane inspector should know about the future of these “Hooks”. New inspections techniques? There cheaper, are these hooks trustworthy? What type of NDE is appropriate? Design factors and testing? What do you think? The usual “great” panel discussion will yield information and a written response from the CCAA board.



JOHN DAVIS P.E. - DAVIS ENGINEERING

Mr. Davis is a registered professional engineer in the disciplines of mechanical and safety engineering. He received a BSME from California State University Fresno in 1963 and has been involved in crane safety, inspection, and testing for over forty years. He is the Director, Performance Standards for the Crane certification Association of America and is a founding member of CCAA. He is a thirty-five-year member of the American Society of Safety Engineers and a longtime member of NSPE, SAE and AWS.

Mr. Davis is an enthusiastic advocate of the Certified Crane Surveyor (CCS) program and has been a vigorous supporter of the professional status of crane surveyors. He believes that professional integrity and pride in workmanship are essential to a successful business.

Over forty years' experience in the use, design, repair, and certification of cranes, including testing, lift planning, rigging, and training.

PRESENTATION TITLE

Risk Avoidance for Crane Surveyors

PRESENTATION SUMMARY

The business world has become very sensitive to the issue of safety and the potential for litigation in the event of an accident. It is most important develop practices that will address the practice of risk avoidance. This presentation will consider these issues from the position of the crane surveyor. In addition to this, the crane surveyor must protect himself as he does his work of inspection/testing.

The areas of client communication, job planning, and documentation will be explored with respect to safety and risk avoidance. Job preparation, check lists, safe practices, and survey reports will be considered. The objective of the presentation is to bring to light methods and practices that will enable the crane surveyor to avoid and shed risk, and to help his clients do the same.

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