



Association of Crane  
& Rigging Professionals



2002 General Assembly meeting set!

May 29 to June 1  
San Diego, CA

*"Promoting lifting equipment safety through quality training, consulting and inspections."*

Spring 2002



## San Diego Site of 2002 National Assembly

The 2002 National Assembly will be held in San Diego, California, May 29th-June 1st. The Horton Grand Hotel will be the site. The Grand is located in the heart of the historic Gas Lamp District and is in walking distance to many restaurants and attractions.

Prior to September 11th, we at ACRP, were free to publicize even an event like the Kennedy Space Shuttle tour which was held in June, 2001. The attendees were fortunate to go where it is likely no other group will be allowed to go. They were "up close and personal" with the missiles, the launch pad, shuttles, etc. It was quite an experience. This year 's tour will be no less important, the difference...we can't publicize it. Security is so tight and surveillance so high, that we will have to patiently wait for the announcement of the big surprise location on Thursday, May 30th. It will be worth the wait!

Other exciting workshops will include exploring in the technical world of computers. Attendees will experience first hand new software applications which are directed toward the rigging and lift industry. Don Edgington, from National Steel & Ship Building will present the study, evaluation and decision making behind the selection of the manufacturer and design of a 300 ton Crane for the National Steel & Ship Building facility in

San Diego. Fundamental safety management for crane operators will be presented by Dave Ritchie of St. Paul Fire & Marine Insurance. The discussion will also include actual situations that caused or impacted crane accidents and how to learn from these mistakes. These just to name a few.

Attendees to the 2002 National Assembly will experience educational and social opportunities that will enlighten the mind and the spirit.

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San Diego • ACRP  
May 29- June 1, 2002

## *The President's Corner*

**Skip Ohman, President**



The Association of Crane and Rigging Professional (ACRP) is an organization of members dedicated to the rigging profession. Although the emphasis of our organization is training, our mem-

bers reflect all aspects of the rigging industry. Members include professional trainers, safety personnel, managers and manufacturers of rigging equipment.

Each year the members of ACRP meet together at our National Assembly. This year, as in every year, the National Assembly is our key Association activity where each member learns and networks with others in the industry. The 2002 ACRP National Assembly is being held in San Diego on May 29 through June 1 and will promote the development of the membership by focusing on our theme of "Heavy Lifts."

Before we discuss the educational sessions that will be available at the 2002 ACRP National Assembly, it is important to emphasize that this is a working meeting. It is a working meeting that includes many activities that not only support the Association, but also the members and the industry. One activity that is not always recognized is the business meetings of the Association. These meetings are open to all of the attendees and include a review of changes to the various OSHA and ANSI Standards, discussions about Association management and an opportunity to join a working committee.

Educational sessions supporting this theme include "Crane Safety Management", "High Performance Ropes" and a case study of "The Selection and Installing of Large Capacity Crane". Computer software is a tool that can assist in all aspects of rigging and lifting, especially the large capacity lifts or "Heavy Lifts". During the 2002 ACRP National Assembly we will dedicate an full afternoon to the various software and computer based tools available to the rigging industry. Attendees will rotate through 5 to 6 workshops where they will actually use these tools on laptop computers set up in the stations. The workstation will include lift planning software, an overhead crane simulator, PowerPoint applications for rigging training, OSHA refer-

ence materials and several manufacturer's reference software.

The highlight of the 2002 National Assembly will be the field trip to two crane sites where the members will observe large capacity cranes and rigging gear in action. Discussions about the equipment, loads and applications will make this a afternoon to remember.

Even though the National Assembly continues to be very important, ACRP also needs to expand the services and support that we provide our membership. Our accomplishments to date include:

1. Standards of excellence in training.
2. Availability of key ANSI/ASMB standards.
3. Newsletter, twice a year.
4. Subscription to CraneWorks and Lift magazines.
5. Assistance in getting the opportunity to publish industry related articles.

The goals of ACRP go well beyond this list of accomplishments:

1. Develop a database of inspection forms.
2. Develop training guidelines for crane training.
3. Develop training guidelines for rigging training.
4. Develop training guidelines for inspection training.
5. Support the crane and rigging industry's effort to improve.

To support the accomplishments of these goals and to insure that ACRP meets the needs of our members' professional goals, ACRP must have sufficient resources. These resources must come from two sources:

1. Sufficient membership to financially support the efforts, we need at least 100 members.
2. An active membership both during and after the National Assembly. We need additional active members for our working committees.

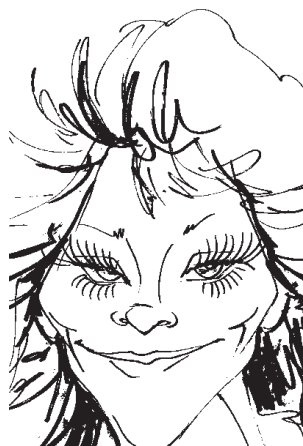
As you review the agenda and activities planned for this year's National Assembly, please identify specific actions items that you can do to assist the Association by active involvement

### **JOIN US!**

**Want to reap the benefits of joining a dedicated group of individuals and corporations intent on promoting lift equipment safety through quality training and information? Complete the membership application form enclosed with this issue of MASTERLINK or call ACRP at 1-800-690-3921**

## Suzanne's Sights 'n Insights

Well, excitement is certainly running high here at ACRP headquarters as we await the 2002 National Assembly! From the time the first plans were drawn, until we are actually on site, is a constant building process until finally it's complete.



Much hard work goes into the finished product. Beginning with the Membership Committee who research possible sites, to each of our dedicated members who volunteer to conduct workshops like Dave Ritchie, to the large task of building the handout information taken on this year by Andy Ciupa, and all the way up to the President, Skip Oman who personally set up the off site tour...at lot of people work diligently to ensure a great meeting. (In case you have misplaced your registration form, we have enclosed one for your convenience **Be sure to make hotel reservations before April 28th ..space is limited!**)

Don't forget to include your spouse in your plans for San Diego. It will not only be a great opportunity for a much needed get a way, but the room's already paid for! She'll love you for bringing her to such a lovely and quaint hotel, not to mention the tours and shopping that abound.

No matter how interesting or exciting a meeting may be it is always a challenge to find the time and money to attend. So it is easier to put the information aside and plan to think about it later. Don't! You will regret it.

Another first, ACRP has invited the Crane Certification Association of America (CCAA) members to attend the 2002 National Assembly. This group is primarily made up of Crane Inspectors and we look forward to giving them a warm welcome in San Diego.

### **MASTERLINK Advertising Opportunities**

**MASTERLINK** is now accepting advertising. For a rate sheet, please contact ACRP Headquarters at 1-800/690-3921.

Watch for ballots in the mail soon as Rich Knoche and committee have been hard at work compiling the new slate of officers for 2003. These will be mailed to all members whose dues were paid prior to March 1st.

If you are looking for the latest from the Regulations and Standards Committee, don't miss Brad Closson's article (page 6-7).

Mike Parnell's article will bring you "up to snuff" on the Learning Station Method of Rigging Instruction on page 11.

As you see from the bottom of the page, Jim Cahill's Long Range Planning Committee is hot on the heels of it's designated 5 Action Items. Plan to join one of these active committees if you are not already involved.

You may have noticed that two of our members have chosen to advertise in this issue. Our thanks to The Crosby Group and John Sakach Company! Advertising in the MASTERLINK is not only a great way to show support and sponsorship of the association, but the number of copies we print that go to AWRFF, potential member companies and our own recruiting efforts makes it an inexpensive and far reaching form of advertising. We hope you will plan to put advertising in the MASTERLINK in your budget. Please ask for information.

"In life, all good things come hard, but wisdom is the hardest to come by." - Lucille Ball. Come to San Diego and make it easy!

### LONG RANGE PLANNING COMMITTEE

*From the desk of James Cahill*

The Committee has identified the following 5 Action Items as tools to accomplish their goals for the continuing progress of ACRP.

1. **Membership growth goals for 2004-2007.** In the next two years the goal for membership growth is 50% across all membership categories followed by 30% growth in the next three years.
2. **Membership service guidelines/goals.** Members of the ACRP are encouraged to participate in all association activities to share their knowledge with others and increase their knowledge thereby improving crane operations and rigging activities in all industries. See page 8 for details.
3. **To increase visibility and recognition of ACRP.** Formulate a strategy to increase the visibility and recognition of ACRP within the crane and rigging industry and public domain.
4. **Suggested Themes and Assembly locations.**
5. **CEU Authorized Provider.** The goal of Phase II of the CEU program is to encourage and assist ACRP members to become IACET Authorized Providers for their training programs. This objective seeks to satisfy our stated goal of raising the level of quality in crane and rigging training across the industry.

ACRP 2002 National Assembly & Workshop Heavy Lifting & Rigging		May 29 - June 1, 2002 The Horton Grand San Diego, CA
Wednesday May 29, 2002	8:00 AM - 12:00 PM	Board Meeting
	1:00 PM - 6:00 PM	Golf Tournament
	11:00 AM - 7:00 PM	Registration
	7:00 PM - 9:00 PM	Welcome Reception - Cocktails and Heavy Hors d'oeuvres
Thursday May 30, 2002	7:30 AM	Continental Breakfast
	8:00 AM - 9:00 AM	General Session Welcome, Opening Remarks, Review of Assembly Goals, Introduction of New Members and "ACRP Rigging Challenge"
	9:00 AM - 10:30 PM	Crane Safety Management Presented by Dave Ritchie, St. Paul Fire & Marine Insurance Break as appropriate
	10:30 PM - 12:00 Noon	Case Study - Selection and installation of large capacity cranes Presented by Don Edgington, National Steel & Ship Building
	12:00 PM - 1:00 PM	Lunch
	1:00 PM - 5:00 PM	Tour - Tour of cranes, equipment and rigging involved in the Heavy Lifts" in the San Diego area. The equipment used, the planning required, and the special techniques required will be observed first hand.  Dinner on your own
Friday May 31, 2002	7:30 AM	Continental Breakfast
	8:00 AM - 8:30 AM	General Session- Assembly Update and "ACRP Rigging Challenge"
	8:30 AM - 9:30 AM	High performance ropes for heavy lift equipment - Presented by David Sleightholm, Bridon America
	9:30 AM - 11:00 AM	Standing Committee Meetings - Break as appropriate
	11:00 AM - 12:00 PM	Election Results, and Business Meeting
	12:00 PM - 1:00 PM	Lunch
	1:00 PM - 5:00 PM	Computer based tools for rigging & lifting Rotate through 4 of 6 workshops providing hands on application of software supporting the rigging and lifting industry. Workshops include lift-planning, rigging calculations, ground bearing pressure for cranes, OSHA regulations, block stability calculation, overhead crane simulation and basic rigging training.
	7:00 PM - 9:00 PM	ACRP Banquet
Saturday June 1, 2002	7:30 AM	Continental Breakfast
	8:00 AM - 9:00 AM	General Session- "Final ACRP Rigging Challenge"
	10:00 AM - 11:00 AM	Committee reports and planning
	11:00 PM - 3:00 PM	Board meeting All board members are requested to attend

## *National Assembly Training Sessions*

**Session 1:** Crane Safety Management - Presented by Dave Ritchie, St. Paul Fire & Marine Ins. Dave will discuss the fundamentals of managing Crane Safety and the important role of Crane operator training. Based on his contributions to the "CraneWorks" magazine, Dave will provide insight into the impact that OSHA, ASME and other real world requirements have on the management of crane safety. Dave will also review actual situations that caused or impacted crane accidents with an eye towards learning from their mistakes.

**Session 2:** Case Study - Selection and installation of large capacity crane - Presented by Don Edgington, National Steel & Ship Building. Don will present the study, evaluation and decision making behind the selection of the manufacturer and design of a 300 ton Crane for the National Steel & Shipbuilding facility in San Diego California. He will also provide an overview of the owner's oversight required in the manufacture, shipping and installation of the crane. Emphasis will be placed on the advantages that the larger capacity crane has provided in the day to day activities at National Steel and Shipbuilding facility.

**Session 3:** High Performance Wire Rope as used In Heavy Lifts - Presented by David Sleightholm, Bridon America. David will present the wire rope options available to operators of large capacity cranes. He will discuss the matching of wire rope construction with the type crane, the wire rope application and environmental demands. David will provide an overview of the special purpose and special construction wire ropes that are now available. Emphasis will be placed on the demands placed the wire rope by high capacity cranes and their applications.

### Workshops - Computer Based Tools for Rigging and Lifting -

The 2002 ACRP National Assembly is providing four hours of interactive training on rigging activity software to keep you up to date on the latest tools available to the lifting industry. Each attendee will have the opportunity rotate through 4 of 6 workshops providing hands on application of software supporting the rigging and lifting industry. The software will be preinstalled on 6 laptops provided in each of the workshops. Each workshop is approximately 1 hour. Workshops include lift planning, rigging calculations, ground bearing pressure for cranes, OSHA regulations, block stability calculations, overhead crane simulation and basic rigging training. Each workshop will be facilitated by an expert in the use of the various software packages. The software and experts available at these workshops are made available by: Bridon America, Industrial Training Inc. Manitowoc, North American Crane Bureau, PAT, The Crosby Group and others.

## REGULATIONS AND STANDARDS COMMITTEE

by Brad Closson

### Federal Regulatory Activity The New Steel Erection Requirements for Cranes and Rigging: One person's opinion



I have not kept track of a lot of the crane issues making their way around the nation but one item has made its way into all states - the SENRAC "Steel Erection" (29 CFR 1926.750) requirements.

As of January 18, 2002 steel lifting operations are faced with some new terms, under defined requirements, unsafe practices and "good ole dumb stuff". My personal 15 favorites are listed below but you should get the full text of the steel erection code and analyze it for your crane activities.

1. A new definition of cranes called "Hoisting Equipment". (As if we needed another one):

*"Hoisting equipment means commercially manufactured lifting equipment designed to lift and position a load of known weight to a location at some known elevation and horizontal distance from the equipment's center of rotation. 'Hoisting equipment' includes but is not limited to cranes, derricks, tower cranes, barge-mounted derricks or cranes, gin poles and gantry hoist systems. A 'come-a-long' (a mechanical device, usually consisting of a chain or cable attached at each end, that is used to facilitate movement of materials through leverage) is not considered 'hoisting equipment.' "*

2. A new definition of a term that is not used in the law. (We need the words we DO NOT use defined so that they can add confusion to the words that ARE used but that are not defined):  
*"Critical lift means a lift that (1) exceeds 75 percent of the rated capacity of the crane or derrick, or (2) requires the use of more than one crane or derrick."*

3. A new administrative requirement. (Something must be done but we won't tell you what.):

*"(d) Pre-planning of overhead hoisting operations. All hoisting operations in steel erection shall be pre-planned to ensure that the requirements of 1926.753(d) are met."*

If you use the dictionary word of "preplanned" (pre-planned is not a word) the most appropriate definitions are:

1: to devise or project the realization or achievement of in advance

2: to have in mind in advance

The new requirement mandates some definitive activity but doesn't tell you what, when, or where the planning activity is to take place or who is to do it.

4. The removal of a personnel lifting safety requirement (Ironworkers don't have to have the safest way to do their job.):

*"(a) All the provisions of 1926.550 apply to hoisting and rigging with the exception of 1926.550(g) (2)."*

1926.550(g) (2) states: *"The use of a crane or derrick to hoist employees on a personnel platform is prohibited, except when the erection, use, and dismantling of conventional means*

*of reaching the worksite, such as a personnel hoist, ladder, stairway, aerial lift, elevating work platform or scaffold, would be more hazardous, or is not possible because of structural design or worksite conditions."*

Now, in steel erection, no determination of the safest way is required as long as you use the procedures identified in 1926.550 (g).

5. Cranes will get a more detailed inspection than if they were doing something other than steel erection. (Gravity likes to fool around with steel more than pipes, boxes and other stuff):

*"(c) General.*

*(1) Pre-shift visual inspection of cranes.*

*(i) Cranes being used in steel erection activities shall be visually inspected prior to each shift by a competent person; the inspection shall include observation for deficiencies during operation. At a minimum this inspection shall include the following:*

*(A) All control mechanisms for maladjustments;*

*(B) Control and drive mechanism for excessive wear of components and contamination by lubricants, water or other foreign matter;*

*(C) Safety devices, including but not limited to boom angle indicators, boom stops, boom kick out devices, anti-two block devices, and load moment indicators where required;*

*(D) Air, hydraulic, and other pressurized lines for deterioration or leakage, particularly those which flex in normal operation;*

*(E) Hooks and latches for deformation, chemical damage, cracks, or wear;*

*(F) Wire rope reeving for compliance with hoisting equipment manufacturer's specifications;*

*(G) Electrical apparatus for malfunctioning, signs of excessive deterioration, dirt, or moisture accumulation;*

*(H) Hydraulic system for proper fluid level;*

*(I) Tires for proper inflation and condition;*

*(J) Ground conditions around the hoisting equipment for proper support, including ground settling under and around outriggers, ground water accumulation, or similar conditions;"*

6. As the new definition of "hoisting equipment" includes tower cranes this will be a fun inspection (What part is supposed to be level and when during the operation?):

*"(K) The hoisting equipment for level position; and*

*(L) The hoisting equipment for level position after each move and setup."*

7. The crane operator becomes the "goat" for all bad things

on a crane:

"(ii) If any deficiency is identified, an immediate determination shall be made by the competent person as to whether the deficiency constitutes a hazard

(iii) If the deficiency is determined to constitute a hazard, the hoisting equipment shall be removed from service until the deficiency has been corrected.

(iv) The operator shall be responsible for those operations under the operator's direct control. Whenever there is any doubt as to safety, the operator shall have the authority to stop and refuse to handle loads until safety has been assured."

8. The position of Rigger gains legal standing and now requires "extensive training and experience":

"(2) A qualified rigger (a rigger who is also a qualified person) shall inspect the rigging prior to each shift in accordance with §1926.251."

1926.32 states "(m) Qualified means one who, by possession of a recognized degree, certificate, or professional standing, or who by extensive knowledge, training, and experience, has successfully demonstrated his ability to solve or resolve problems relating to the subject matter, the work, or the project."

9. Latches on hooks become optional (After all we got along without them before the OSHA requirements of 1970.):

"(5) Safety latches on hooks shall not be deactivated or made inoperable except:

(i) When a qualified rigger has determined that the hoisting and placing of purlins and single joists can be performed more safely by doing so; or

(ii) When equivalent protection is provided in a site-specific erection plan."

10. Being under a load is only dangerous if you are "required" to be there. (It is OK for the "non-required" or "volunteer" workers to be under a load.):

"(d) Working under loads.

(1) Routes for suspended loads shall be pre-planned to ensure that no employee is required to work directly below a suspended load except for:

(i) Employees engaged in the initial connection of the steel; or

(ii) Employees necessary for the hooking or unhooking of the load."

11. What is "unintentional displacement"? (We'll need riggers trained in displacement analysis and prevention for this one.)

"(2) When working under suspended loads, the following criteria shall be met:

(i) Materials being hoisted shall be rigged to prevent unintentional displacement;

(ii) Hooks with self-closing safety latches or their equivalent shall be used to prevent components from slipping out of the hook; and

(iii) All loads shall be rigged by a qualified rigger"

The definition of "displacement" is "to be moved physically out of position" but the use with the term "rigging" would imply that "disengagement" is the hazard. "Disengagement" means "to be released from something that engages". If only there was a dictionary available during the development of the code.

12. Christmas Treeing is now defined as "Multiple lift rig-

ging" and regulated:

"(e) Multiple lift rigging procedure

(1) A multiple lift shall only be performed if the following criteria are met:

(i) A multiple lift rigging assembly is used;

(ii) A maximum of five members are hoisted per lift;

(iii) Only beams and similar structural members are lifted; and

(iv) All employees engaged in the multiple lift have been trained in these procedures in accordance with §1926.761(c) (1)."

13. New interpretations of the phrase "manufacturer's specifications and limitations are needed to support this one:

"(v) No crane is permitted to be used for a multiple lift where such use is contrary to the manufacturer's specifications and limitations."

In 1991 OSHA said: "Because OSHA considers this practice to be hazardous, prior to any tandem lifting, you must be able to demonstrate that the practice complies with the crane manufacturer's specifications and limitations for the operation of the crane to be used. This may be done by obtaining written concurrence.. ." Having a letter regarding this for each crane is not reasonable but will be wonderful litigation fodder.

14. Rigging components, and manufacturers, get some new confusing and ill-defined design requirements:

"(2) Components of the multiple lift rigging assembly shall be specifically designed and assembled with a maximum capacity for total assembly and for each individual attachment point. This capacity, certified by the manufacturer or a qualified rigger, shall be based on the manufacturer's specifications with a 5 to 1 safety factor for all components."

Some of my issues with this requirement are: Lifting components are usually not "specifically designed" for a particular application but do have general design parameters that are suitable for lifting service. Do those parameters meet this requirement?

5 to 1 is a "design factor" not a "safety factor" and must be stated as being based upon the "yield strength" or the "ultimate" strength of a material. What are we being told to use here?

The requirement does not allow for design factors greater than 5:1. Are we not to use "stronger" components?

The requirement does not state if the factor is on the "total" load seen by the device or the "partial" load seen by the component.

15. A new piece of paper (chart) is required on the worksite:

"(3) The total load shall not exceed:

(i) The rated capacity of the hoisting equipment specified in the hoisting equipment load charts;

(ii) The rigging capacity specified in the rigging rating chart."

What is this? Which manufacturer of rigging is used on the site? Do you have to have one for each manufacturer?

Oh well.... We all know the "law is the law" and it is up to us to make the adjustments in our work efforts to comply with this new law. I wish, however, that the time that OSHA will spend developing interpretations of the new wording and fighting for the inevitable citations that will be based upon the poorly defined requirements, could have been used to develop a set of good requirements the first time. But this is just "one person's opinion."

# An Invitation to all ACRP Members

Join our various committees and help ACRP work with the industry.

Contact the committee chairman to offer your help or be prepared to actively participate with the committee of choice at the 2002 ACRP National Assembly

**Committee:** Public Safety

**Chairman:** Ladd Poor

**Vice Chairman:** Russ Donaldson

**Committee Mission:** Develop specific safety and training guidelines for mobile crane operators and rigging inspection for review at the 2002 National Assembly.

**Committee Objectives:** Establish core criteria for qualification training upon which the proficiency of the trainee will be based and evaluated.

**Committee:** Members Services

**Chairman:** Jerry Klink

**Vice Chairman:** Ron Overton

**Committee Mission:** To help promote the public interest in ACRP membership and activities with advertising and public relations activities.

**Committee Objectives:** Improve member service, based on member feedback.

**Committee:** Long-range Planning Committee

**Chairman:** James Cahill

**Vice Chairman:** Mike Scheibach

**Committee Mission:** Define issues that will impact the growth, effectiveness and recognition of ACRP within the industry.

**Committee Objectives:** To make recommendations for ACRP consideration.

**Committee:** Regulations

**Chairman:** Brad Closson

**Vice Chairman:** Mike Parnell

**Committee Mission:** Report current changes in OSHA and ASME documents as applicable to ACRP interest.

**Committee Objectives:** Promote changes in the standards and regulations which will help improve and enhance crane and rigging activities.

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## MEMBERSHIP SERVICE GUIDELINES

*Submitted by Roger Oman*

Members of the ACRP are encouraged to participate in all association activities to share their knowledge with others and increase their knowledge thereby improving crane operations and rigging activities in all industries.

### **Individual Member Participation**

- Attend and participate at the National Assembly on a committee.
- Are encouraged to complete Session and Assembly evaluation forms.
- Participate on "One on Ten" membership drive.
- Suggest three themes and destinations for future National Assembly's
- Declare that your training course meets ACRP "Standards of Excellence."
- Are encouraged to become IACET Authorized Providers of the CEU.
- Collect 12 business cards and write 2 notes about that person on the back.

### **Committee Participation**

- Commit to working on a committee for 1 year, help achieve its 3 milestones for that year even after the National Assembly is over.
- Commit to taking on at least one delegated responsibility or assigned task and complete it on your own time after the Assembly (by October 1).

- Commit to setting aside 4 to 8 hours for working on an ACRP related task and completing it by the agreed upon date.

### **Board Member Participation**

- Commit to taking a leadership role on a committee.
- Agree to actively seek new members =>meet and greet them into service.
- Agree to set aside 12 - 18 hours of service outside Board/Assembly meeting.
- Agree to make follow up personal phone calls to potential new members.
- Agree to attend Board Meetings, arrive prepared to make progress, leave with clear goals and objectives for the next six months.

### **Executive Officer Participation**

- Commit to support the Board Chairman and President in completing the objectives.
- Stand behind & support new initiatives agreed upon by ACRP Members.
- Come to Board Meetings prepared to make progress, help organize and facilitate the meeting, check progress with others as delegated by EC or P.
- Agree to set aside 24 - 32 hours service outside Board / Assembly meeting.

## MEMBER SERVICES COMMITTEE

*From Jerry Klinke*

Work continues towards meeting the accreditation criteria set forth by IACET for the continuing education requirements. Everyone should have received training certificates from the Orlando assembly by now, if not please let us know.

Our plans for the National Assembly in San Diego, is to be able to issue these certificates to you right there before you leave, on Saturday June 1<sup>st</sup>. Although we don't have the software in place yet, we hope that everything will be ready for the meeting in San Diego.

The ACRP website has a new area, the discussion boards. This new feature allows people to post questions about various topics. When you try out this new feature it requires a password to post and view the items. Anyone can register to use these boards, just enter a name and select a password the first time you use it, that's all it takes! Check it out - [www.acrp.net](http://www.acrp.net)

A few words about the ACRP resource CD-rom, we had originally planned on updating this on an annual basis, but the Board has recommended that we postpone it for 2002. This decision was partially based on budget restrictions, but mainly on the fact that we have very little NEW content to add to the disc at this time. We would like to include some quality resources and tools for our members on the next revision, but the

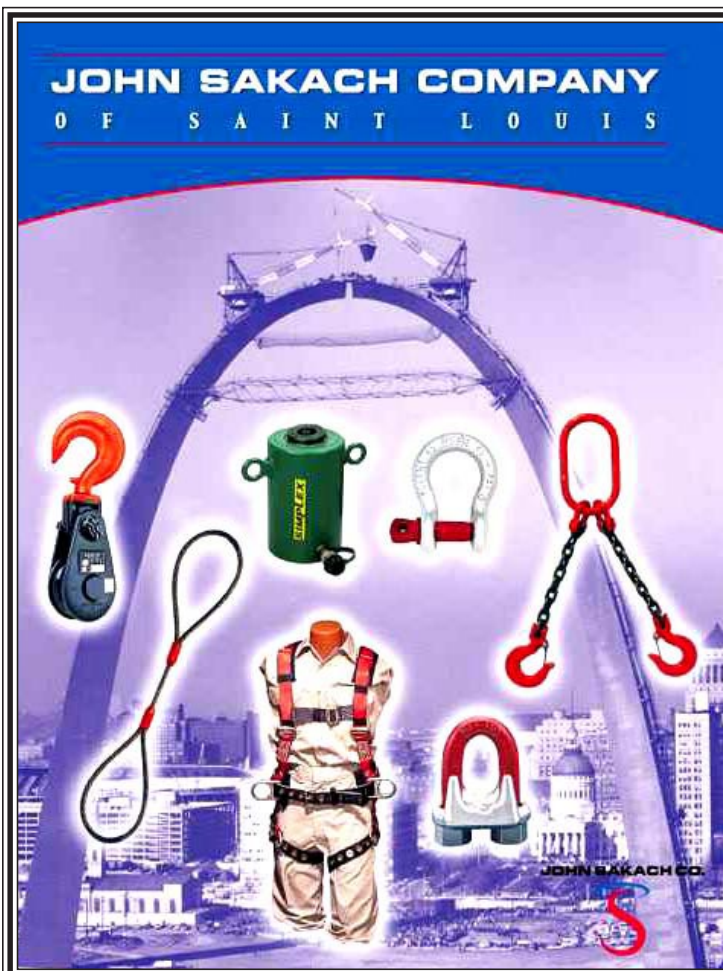
member services committee needs your help. We need to know what new materials you would like to see included on the disc. Currently this CD contains inspection forms, membership data, and digital photographs from past meetings. Some possible items mentioned have been; PowerPoint templates, calculators, digital photographs to include in training presentations, and quiz's or tests for rigging and crane topics. If you know of other items you would like to see included, or have suggestions, please let us know.

The 2002 ACRP National Assembly in San Diego looks to be a great experience for our membership. Don't forget to tell others about the benefits of an ACRP membership, and invite them to attend and see for themselves.

*Hope to see you there!*

"I can give you a six-word formula for success:  
Think things through - then follow through."

Eddie Rickenbacker



## JOHN SAKACH COMPANY OF SAINT LOUIS



**WE RIG  
ST. LOUIS**

and wherever  
Quality and  
Safety is #1

# EDITORIAL CALENDAR 2002



	Special Focus	Cranes and Trailers	Rigging Products and Crane Accessories	Important Shows (*Bonus Distribution)
<b>May-June</b> (Ad cbse April 4)	<b>Wire Rope Issue</b> On the road: Heavy Haulers	Crawler Cranes Specialized Trailers	Hoists Crane and Rigging Software	*ACRP, May 28-June 1 *CRAC
<b>July-August</b> (Ad cbse June 4)	<b>The SOURCEBOOK</b> For Mobile Cranes, Trailers, Transporters, Rigging Equipment, and Crane/Rigging Service			
<b>September-October</b> (Ad cbse Aug. 5)	<b>The Challenge of</b> Heavy Moves: Rigging the Job Installation and Removal Technical Innovations in Mobile Cranes	Rough-Terrain Cranes	Crane Accessories and Attachments Radio Remote Controls	*SC & RA Workshop AWRF
<b>November-December</b> (Ad cbse Oct 4)	<b>Heavy Crane Lifts:</b> Industrial Jobs Construction Jobs Transporting Rigging	All-Terrain Cranes Knuckleboom Cranes and Boom Trucks	Beams and Clamps Alternative Lifting Devices	



	Aerials	Cranes	Forklifts	Special Focus	Show Spotlight
<b>May</b> (Ad cbse April 1)	Articulation Boom Lifts	Truck Cranes	RT Forklifts Truck-mounted Telehandlers Vertical Masts	ConExpo/IFPE Review Control Systems	*ACRP, May 28-June 1
<b>June-July</b> (Ad cbse May 1)	<b>13th ANNUAL SAFETY REPORT</b> Aerials Crane Forklifts Indicating Devices Training				
<b>August</b> (Ad cbse May 1)	Electric Scissor Lifts	Boom Trucks and Knuckleboom Cranes	Truck-Mounted Forklifts	Hydraulics Rigging Spotlight	
<b>Sept.</b> (Ad C bse Aug 1)	Trailer-Mounted Aerials	Heavy Lift Cranes	Telehandlers	Brake Systems AWRF	*SC & RA Workshop
<b>Oct.-Nov</b> (Ad C bse Sept. 2)	Trailer-mounted Aerials	Industrial Cranes Carry Decks	Heavy Lift Trucks	PowerTrains Engines Rigging Spotlight	Rodeo
<b>December</b> (Ad C bse Nov 1)	<b>BUYER'S GUIDE</b> The Industry's Most Comprehensive Guide to forklifts, Aerial Lifts, Aerial Work Platforms, Mobile Cranes, Rigging Hardware, and Lift Equipment Accessories and Components				*Bonus Distributor

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Association of Crane  
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## LEARNING STATION METHOD OF RIGGING IN- STRUCTION

by Mike Parnell



Most people learn best by seeing, doing and talking through the information. We know the old axiom "Practice makes perfect", applies to learning new skills and apply-

ing new knowledge.

Try a new twist on an old subject. Keeping your class size to 8 people will help greatly in initiating this type of training format.

Set up 6 Learning Stations the next time you have a rigging program. Each location should have a flip chart which states the goal for that Learning Station. Let's use sling selection as an example for Learning Station 1.

The equipment needed is a collection of slings and rigging hardware used for general purpose rigging. In all, 24 slings (web slings, roundslings, wire rope slings and chain sling, with 24 shackles all of which range in the 1-5 ton capacity area. The slings should be in pairs or sets of 4, ranging from 4' to 12' in length. Wear pads (20) should be available in different sizes and types.

The instructor asks the 8 students to form into two teams. They should identify the rigging gear's capacity, and demonstrate the lifting capacity gained or lost based on hitch type. Under the trainer's oversight, the students should identify acceptable rigging practices when using shackles and with slings.

The students should become fully informed as to how a change of hitch type can change a sling's rated capacity. They should be capable of determining through practice each sling type's new rated capacity when rigged to a load in a combination of hitches. In conversation with the trainer, the students should defend their decisions about sling capacity and hitch type based on a verbal quiz process by the instructor.

At Learning Station 2, the instructor should set up a rigging inspection site. The equipment needed is a collection of 80 pieces of damaged rigging which includes all sling types and common rigging hardware components.

The instructor provides a hands-on instruction session which highlights types of damage for given types of rigging. The students should help identify rigging damage in

each sample discussed during the "show & tell" process.

The two 4-person teams should select 40 pieces of rigging and complete a thorough inspection of the pieces. After recording their findings, each team member must present 5 pieces of rigging gear to the entire group and explain the damage that they have discovered in those pieces. Anything additional about the damaged rigging not addressed by the presenter should be brought forward by the trainer and/or the other students.

A third Learning Station could be set up to help gain more knowledge and skills in the area of load weight estimation. Other Stations might include load rigging, crane hand signals and taglines, load handling with an overhead crane, and load path selection.

At each new location, the instructor and two small teams work together to identify the subject at hand. Talk through the information using reference cards, workbooks, notepads, and flip charts with the live rigging equipment. Then the teams "do" perform an action workshop which puts to use their newly gained information. All of the Learning Station events should include a wrap-up and summary of the training activity.

This kind of field laboratory training helps accelerate the learning process. This is a long step away from overhead projectors, videos and computer projector type training. It takes work to develop, but the students gain faster and the information sticks with longer.

Give it a try!

### BY-LAWS BALLOT RESULT

#### Proposed Change #1

**Purpose:** to provide the Board the authority to take actions in support of the responsibilities defined in Article IV Section 2 and to take actions based upon the financial information reviewed for action at the Boards meetings.

Approve: 50 Not Approve: 2

#### Proposed Change #2

**Purpose:** To correctly reflect the ACRP's practice of membership that has been utilized to date.

Approve: 52 Not Approve: 1

#### Proposed Change #3

**Purpose:** To allow proposed amendments to be addressed at the National Meeting prior to being sent out to all of the Association members. It will also require the same level of membership acceptance for approval in both approval methods and to lower the approval level for amendments to a simple majority (more than 50% from the current 67%). It will also require a record of changes to the By-laws be kept.

Approve: 52 Not Approve: 1

Abstain from Voting: 3

# W E L C O M E T O A C R P 2002 N E W M E M B E R S

Patrick James  
Safety Administrator  
PacifiCorp  
Salt Lake City, UT

Harry Costner  
Manager, Construction Technology Div.  
Hydro Consultants, Inc.  
Baton Rouge, LA

Billy F. Lavender  
Equipment Safety  
Dillard Smith Construction Co.  
Chattanooga, TN

Francois Audette  
Quebec Leverage Expert,  
Div. Of X-Per-X Inc  
Montreal, PQ

Dennis McMahan  
Safety & Training Supervisor  
Chelan County PUD #1  
Wenatchee, WA

Francois Leduc  
Quebec Leverage Expert,  
Div. Of X-Per-X Inc  
Montreal, PQ

*With great sorrow we report the death of ACRP member  
Dave Pelkey.*

*Dave was employed with  
Industrial Training International, Inc.,  
he passed away in October, 2001*



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